

The New South Weles institute of Technology of its central location in Sydney is a congorate institution for higher education in Sydney is a doctorate mention for higher education established to gravido a wide range of professional courses for thoosentering or atready amployed in industry, government and technological listes. Applications are now invited for the following senior acidemic positions:

FACULTY OF **BUSINESS STUDIES**

The Feculty of Business Studies currently offers a Bachelor of Business Segree with concentrations in eccounting, marketing, operations management and public administration. In addition, in 1977 the Graduale Diplome in Accounting and the Graduale Diplome in Personnel Management/Industrial Releases tions were introduced end it is enlicipated that expension of graduate courses will proceed in the

Talel current enrolment within the Feculty epproximates 2,600 otudents. Administratively the Feculty is organised into the four Schools of Accounting. Business and Public Administration, Finance and Economics, and Merketing. Appointments within the Feculty of Business Studies will be elisative from July, 1977 or Jenuary, 1978.

Head, School of Finance & Economics

The appointee to this Cheir will be responsible for the academic leedership at the stall of the School and the day to day operation of the instructional and research work. As the Heed of School, the eppointee will be ex-officion member of the Acadomic Board and the Feculty Board, end may be called upon in the future to easume the duties

The School nutleipatos offering en eros of con-contretion within the Bacholor of Buoiness degree in Applied Economics, Furifier, a Greduste Diplomo in Finence is being planned for introduction in the neer luture. The School will further be offering Finence & Economic subjects in other Greduete courses that are being pilered within the Feculty of Business Studies.

The eppointee should poseess e Doctorete (or equivolent) and should have professional experience of an appropriate level in higher education in the Business Studies itsid. This experience will have been obletned by jecturing end/or education in the In a Feculty of Business Studies at a recognised University or Polytechnic.

Il is desirable that the Head of the School will have had substantial business experience. Allernetively the appointes may have served as a consultant to business or to government. Further information on conditions and method of applications are desirable to be diven below.

Associate Head of School,

Business & Public Administration

Applicants should possees quellifications at the Post-Graduete level in Business Studies and should have personal experience at an appropriate level in higher education in the Business Studies itself in higher education in the Business Studies itself, This experience will have been obtained by fecturing and/or administering in a Feculity of Business Stildles nit a recognised University or College of Advances Education. Candicless with prenticel experience in business, government, or consulting will be given preference. A strong quentitalive beckground is desirable and applicants with experies and preporetion in Public Administration are especially encouraged to apply.

in eddition to lenturing in the respective eree, the appointee will edvise the Heod of the Schoot of Business & Public Administration on the development and presentation of organisation, management and policy outlects leught by the Faculty. He will also be involved in certain administrative solivides essociated with the Schoot of Business & Public Administration and may be asked in serve as fleed of Schoot of Business & Public Administration.

Moministration

Wither information on conditions and method of application is given below.

Others

8. Resdership/Saning Lectureship/Lentureship in Chinese
History: 8 posts to leach respectively:

(a) History of modern China, with emphasis on Chine's

(b) Chinese historingraphy and/or Chinese hielorical

gedgraphy:
(d) Ming Chring hietory, and Sinn Russian hietoridal relations.
Senior: Lectureship/Lentureship in World Hietory, (andent a medieval European history)

Principal Lecturer in Business Law Department of Business Law School of Accounting

The Principal Lecturer in Business Lew will proto ecademic leadership in the erea of business lew within life Sefool of Accounting eno may be eaked to cerve in the especity of Head of the time oubject to responintment. Five core subjects and coverel electives are offered in Business Lew. end caverel etadives ere offered in Business Lew. Two graduate diglome courses include business lew subjects. The appointes will edvice the Head of School in the review and further development of business lew subjects as part of the Feculty's acedamic programmes. The appointes will elected the programmes of the proposition of the feculty's acedamic programmes. The appointes will elected in ereas such as sytlebits services, stroom services and development of Feculty resources.

Applicents for the position effould gossess e Poet-Graduets qualification in Law one considerable experience in the profession goines either in tegal precitice, in Government or as a corporate lewyer. In addition teaching experience in a University or other tertiery institution would be an adventage. Further information on conditions and method of application is given below.

FACULTY OF ENGINEERING

Principal Lecturer

School of Mechanical Engineering

The appointed to this position will be expected to essist the Head of School in providing ecsemic leeders tip in the School of Mectenical Engineer. ing. The School is structured at the present time into Departments of Mechanical Engineering and Production Engineering and has an ecodemic stell establighment of 25 members. The School prosently has about 600 students and there is a small but repidly increasing commitment to postgrequete education.

The eppointee will, subject to the requirements of the Head of Sehool, set from time to time se Head of the Department of Mechanical Engineering. It is expected that the successful applicant will have acquired a doctorate and substantial industrial lierary is executed to the School's course the successful applicant will have acquired a doctorate and substantial industrial lierary is executed to the School's course

The main lields of injerest of the Schopl of Mechanical Engineering ere Advanced Dosign, Oynemics, Blomedical Engineering, Control Engineering, Stress Analysis, Transportation, Turbo-machinery, and Viscoelestic Meterists. Applicants may, however, heve speciallel interests in any sultable lield of Mechanical Engineering. Further information on conditions and method of applicalion le given below.

ACADEMIC SALARIES era under teview bul era

Head ni School \$17.327

Head of School \$A27,129 Approx. £17,327 \$A22,565-\$23,288 Principal Legiuter

With concent of Council, ocedemic stell ere perwith concent of Council, ocedemic stell ere permitted to undertake consulting work. Stell ere encouraged to ongage in research work in an area appropriate in their knowledge and experience. Feree and a contribution toword removel expenses and initial accommodation expenses are provided for overseas appointeed. A Housing Loan Scheme is also evallable.

Applications close on May 13, 1977. Applicante Applications close on Mey 13, 1977. Applicants should entenge for three conflictation refereed reports to strive by the seme date. Written epplications should include: eddress; phone number: personal perliculers; doourgentery evidence of quelifications; work and teaching experience; affiliations; publications; research work underleten; and the names and addresses of the three releases. referees confected . Applications end

> The Official Secretary New South Water Government Offices 66 The Strand Landon WG2N BLZ

Professor: £15,330 end ebrys
Reader: £11,182-£14,902 (by 8 increments)
Sanior Lecturer: £10,710-£14,437 (by 8 increments)
Lecturer: £8,900-£7,830 (by 2 increments)
£8,295-£11,585 (by 7 increments)

(The above salery society are besed on exchange rate HK\$8.00 squals \$1.00 and this rate is subjent in change.). (Sterling salary depends an quelifications and experience

Qualifications for Appointment Candidates for Chairs enould be ni high academin stand-ing with proven contributions/publications of merit and should, be able to provide jesderohip to the tesphing and

ENGLAND :

Annuel Salary

Head of the Department of Food Technology

Queensland, Australia

Queenstand Agricohorut College is a muhi-disapha College of Advanced Education with modern, well-equipped facilities, located some 90kms from Brishan

This is a sensor appelment within the School of Fool Studies tone of three schools: which offers degree in hiptoma courses for the food processing, catering, look

You will have appropriate academic qualification tagether with relavant occidentic, research and/or infusound administrative ubility and an appreciation ducutional philosophies and practice in advanced educ the general development of this expanding School.

full details of name, date of birth, martial status, quit fications, gresent employment, experience and the paint of Iwn referees, to rouch the Agent General for Queen tami, 392 Strand, Lundon WC2R OLZ, not later then My

General Vacancies

London College of Printing

Department of Business and General Studies

Principal Lecturer

in Communications Studie Applications, are invited from grodueles who have experience of earte especi of the Communications from the party of the Communications from the party of the Communications.

process. The ideal applicant should have leaching, industrial

The ideal applicant should have leaching, industrial in reasons experience.
The person appointed will take responsibility of a flourishing HND Business Studies Course (Communications Studies etrasm) and the development of our proposed degree course in Communications Management. Hits may slee teach relevant cepecie of the subject on our size degree courses in the Design and Photography fields. Salery in accordance with the Burnham (FE) Raport, but incremented acids within the trango: 25840-25842 (Ast 27578, plus 2312 aupplement and 2402 inner Lander Allowones.

Further particulars and application form (returnable by 20th April, 1977) obtained from the Senior Administrative Office & the College.

Librarians :

OXFORD SALLIOL COLLEGO OUPUTY LIORARIAN

Awards:

THE CHINESE UNIVERSITY OF HONG KONG récoerch programmes in his field. Cendidetes who de noi possese, the required quelificatione for eppointment to Chaire mey be considered for appointment as Resder. Cendidates in Senior Lectureships should heve a Philin a rejevent field considered univereity lescriting and research experience and ecedamic publicellons; of officiality.

chiginelly. Cendidates for Lentureships should have a higher degree. preferably e Ph.D., in a relevent field, with appropriets university teaching end/or research experience.

Application Procedure

Application Procedure

General Information concerning terms of service and application forms are obtained from the Personnel Section, University Secretariat, The Chinase University of Hong Kong, Shatin, N.T. Applicatione, marked "Projessor chip-Application" on cover, should be returned to the University before April 30, 1977.

THE TIMES Higher Education

April 8, 1977. No. 285

SUPPLEMENT

Student tally will be the same as now'

y Judith Indd

Universities and polytochnics were edivised to assume that there would be like some number of students in higher education in the year 2000 at now, and plan occordingly by Mr William Gutterldge, director of complementary studies at Aston University, this week.

He told the Coreero Rosearch and Advisory Contro conference at Bul-marshs Collego, Reeding, the observers had been ine gloomy in their predictions of numbers in the 1990s.

It is unduly pessionistic to sey that universities and polytechnics will no the same way as the colleges of education in the 1970s."

Though population graphs showed there would be 200,000 fewer 18there would be 200,000 fewer 18year-olds in 1994 than at present,
this figure would cortainly he modified. The proportion of school
leavers possing A level had been rislea and could be as high as 24 per
frent in 1994, After that, the number of 18-year-olds would not plunge
to tern oud, indeed, was likely to

tise.
Unless policy was based on his assumption that members his 2000 Ab would be roughly the same as now the problem of colleges of education, of med increase and that the college would arise again.

between periods when things seemed right and pariods when things seemed rasion. But this is a belief way than trying to metch ell the inctuations in population. For the colleges and institutes at higher education, Professor Gut-



Me William Gutterldge

roridge sow a loss certein futures, "I don't think we should ossumes that many of the institutes are going to get off the ground in the capecity of institutes of higher education. They are going to involve illustrative hut in help accommodate on a short-term hasis some of the demand which arises from the rising student population until 1984."

1980/81, But there would not be a pro run increase would not be a pro run increase in resources.

Numbers next year ere expected to be 281,000, A five per cent increase would not be a pro run increase in resources.

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Numbers next year ere expected to be 281,000, A five per cent in the best per cent increase would bring them to not one the best per cent increase would bring them to not one the second to be a pro run increase.

Numbers next year ere expected to be 281,000, A five per cent increase would bring them to not one the proper and illifering from the p

Learn-at-work plan

Britaio was ropresented by the hicl inspector (Scotlend), Mr S. E. cClelland, and by HMI Mr M. sgulllou, who has adult educed on responsibilities. The conference of the clinical by Mr Gorry Fowler, transity minister of state for oduction.

rent study must often officers.

The second must be the location of teach in the second of the second of teach in the second of the second of

ders would remoin a powerful for formal educational fast; liens the conference con-

At week in Pscis the Organisation of Economic Cooperation and Development held a four dey conference recurrent education upon existing encountery and post-secondory high encountery and post-secondory high encountery and post-secondory high encounters are marked change from most pre-right conformes. This time the people? It was deer the population was heavily practical uniques could lead to the deferment and case etudies of recurrent education was departed by some of post-secondary education, so that they could undertake k later on the basis of work experience; the ego structure, and houce the inspector (Scotlend), Mr S. E. Sitaio was represented by the field inspector (Scotlend), Mr S. E. of institutions oright change in consequence.

Universities expect 295,000 students by end of decade

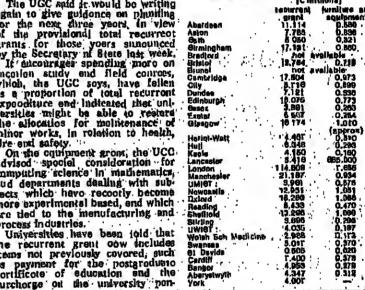
by Frances Gibb

The universities should have well over helf the governoest's torget of 560,000 students in bigher education by 1980/81, occording to the University Greets Committee. In a letter to ell universities lest week, tolling each its share of the toll that protected. Cambridge, tolling each its share of the toll that protected. Cambridge, tolling each its share of the toll be protected. Cambridge, tolling each its share of the toll be protected. Cambridge, tolling each its share of the toll be protected. Cambridge, to instance, has been told that protected to grow by more then five per cent between 1977/78 and 1980/81. But there would not be a pro run increase would bring them in noted in be 281,000. A five per cent litterior to the first terms and illesting form.

leavers porshing A leval hidd boen risless responsing A leval boen risless responsion of low respons to the provision of the provision send responsion of the provision of the provision

process industries.
Universities have been joid that the recurrent grent dow includes items not previously covered, such as payment for the postgrodusto contlicote of education and the

What they get



Research councils' income cut by three per cent

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Scottish science



Jack Morrell discusses the achievements of science in Scotland in the early nineteenth century, 15

Sir Norman Lindop describes the polytechnics contribution to the supply of scientific manpower, 7

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Robert Dowse reviews David Marquand's recent biography of Labour's first Prime Minister, 17

Conferences, conferences

University administrators in Swansea, 2 University Teachers' Group in Oxford, 28 OECD in Paris, 2 Sociologists in Sheffield, 8

Poland : Paul Moorman reports on developments in higher education in Poland, 9

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Teacher cuts: The North Judith Judd continues her region-by-region look at the pattern of teacher

David Walker talks to the Oxford politics don who is to be Leicester's new. vice-chancellor, 6

haire Prolessorship/Readership in Marketing Professor/Reedership in Geography

How the binary policy and Mrs Williams's Department heads to be 13 points outdid the Gower peninsula

Four handled and fifty university concerns of edministrators, such os administrators, 55 meetings of industrial democracy.

In the evening a rother harassed specialist groups discussing everything from the future of higher eduation to photocopyleg, and the Bay which switched rapidly from rush to the platform to give the driving downpour to pale sunshinn major address on university odministration in conditions of severe reund gales, were the assential ingredients of the CUA conference. The full timetable of group meetings kept the delegates hard at work, For most of the time the wonther made sure that they stayed there in epite of the attraction of

the nearby Gower peelnsuls.

A lighter diet was provided in two plenary sessions when they were ellowed time off from vigorous perticipation. On Friday morning an Any Queetlons? session was held with on the panel Professor Glanmor Williams, vice-principal of the University College of Swansea, Mr Laurie Sepper, general secre-A lighter diet was provided in two plenary sessions when they were eliowed time off from vigorous perticipation. On Friday morning an Any Questions? sassion was held with on the panel Professor Glanmor Willianes, vice-principal of the University College of Swansea, Mr Lourie Sepper, general secretary of the Association of University Teachers, and Mr Peter Scott, editor of Tha THES. Questions ranged from whet the panel thought of the binory policy (o test of diplomacy) and Mrs Willians's 13 points (a test of memory) to the morn particular

A dedication to a "new vocation-nlism" by indiversities was the key-note of the eddress to a plendry session of the conference by Gerry Fowler, MP, formarly Minister of State at the Repartment of Educa-tion and Science responsible for higher education.

It is emphasized to delegates that the did not seek a return in a nor-

Gerry Fowler, on the second of his four schednled conferences in e week, completed his strike-ridden journey from Paris just in time to

straint on reseurces.
But the core of the centereoce ras in the specialist group meetings.
Two themes were uppermost. The
first, the future of higher education, ivoe discussed in the context of the interim report of the CUA group en forecasting and university numbers cheired by Michael Shettock. This

isrly lively concern for administretora because they ere in the front
line. They are elso drawn to it by
the embivalence of thair stells

Tiniversities could not escent the

Tiniversities could not escent the within universities, with senior administrators throwing in their lot

administraters throwing in their lot by and large with the ecademics end junior staff regarding themselves more likely as employees.

Other specialist groups discussed the allocation of resources, the impact of computerized systems, and relations between edulnistrators end their clieuta. Films made by universities to help recruit students were shown for the benefit of the weeker willed. For the strong there were "in-basket exercises" ond other erduous tasks. For the really strong a special ofternoon eession on elvins was laid on.

The CUA bas now established itself as one of the more important higher education conferences. It growleg importence is demonstrated not unly by the growing turnout but

They also had to heve a minimum knowledge of work bohaviour, taught that it was possible to menege people ond at the same time have good relations with them, and that trade union dealings were nothing to be ofraid of. 'New vocationalism' call to universities

Universities should finve a central industrial relations policy to provide consultative guidelines, and this policy should be known by all personnel, he suggested. bo tempted to forgo higher education, particularly in a time of significant unemployment.

The idea thot investment in
people was as important as investment in plant was no fonger as
popular as it was 10 or 15 years ogo.
Although some ecople in higher
education felt that in the present
despel lay the eccis of future hope
he remained doubtful.

tations of their role in decision-

Depertmental hoads hed to be provided with training in mana-

gerial responsibilities in the light

university policy, agreements

making had been reised.

on the controversiel issue of trade union representation on university country and councils. Mr. Jenkins seid this was unlikely. Even

people was as important as investment in plant was no songer as popular es it was 10 or 15 years ogo. Although some ecopie in higher education felt thet in the present despelt lay tho eccal of tuture hopo he remained doubtful.

The main reason for this doubt was that universities had failed to fulfil the unreal expectations that meny people hed of them in the 1950s. "Feople were dispeptation of the themse of his address, universities helpier education in conditions of, severe resource contraint. Mr. Fowler and it was impersitive for universities, to look at the more effective use of highly expensive manpawer. First, these must be some rationalization, and this immediately roleed the question of the manpawer. First, these must be some rationalization, and this immediately roleed the question of the manpawer. First, these must be some rationalization, and this immediately roleed the question of the collections could only be mede through less belong the proposed greater use of the course of the conventions to the manpawer. First, these must be some rationalization, and this immediately roleed the question of the convention of the proposed greater use of the convention of the proposed greater use of the convention of the proposed greater use of the greater than the proposed greater use of the greater than the proposed greater us

'managers of resources' put before research'

ef NUPE—with a link bit of help from Mr Sepper on the back benches—leoked at this vitel question from the point of view of the unlens.

Heeds of depertments will increasistly. Mr R. F. Eddy, from Shelfer of scerce resources, Mr W. E. Jenkins, ecnior tutor in industrial the unlens.

Jenkins, ecnior tutor in industrial university, said administrators with the front line, end the morale hod "burded downwards". They had lived with the threat characteristics. Universities could not escape the

Administratere should not accept student occupedens as a mol port of conducting the business, he said. There was a gor of this beceuse ecceptant int suffer from sities. He university sutherities to the more positive line. Implications of industriel democracy. In the paet decade there had introduction of the Industrial Relations Act and the Employment Protection Acr. Employees' expec-

The second major theme of a conference was a discussion a higher education in the 1980. The speakers explored this theme is its beginning (likely depend to places in universities) in mile (possible changes in interest a axternol structure) and it is (graduete amployment). "There is no isnger ony guod reason why oble young people should continue to be penalized by a badly-raught and ill-thought-our course for the sake of attending o department whose reputation rasts

The discussion started in presentation by Mr. Most Shettock, neademic registers in wick University, of the main clusions of the CUA group of the cesting and expansion. The swale 62-page interim report we pair its led on the eve of the contract. corn far students counted more than research "and its associated deter-mination to publish or perish". Mr D. W. J. Morrell, register a Strathclyde University, explored to possible poths of constitutional astructural changes in universite. we can somehuw manago to restore the centrality of teaching and learnthe next 10 yeers. Later Mr Ma Putt, director of the Central & vices Unit for University and his technic Cereors and Appendices Services, apoke on the deplants of graduate mempowers.

Mr Morrell in particular decise to take a catastrophic view in future. Ho criticized the spin

ing at the expenso of the incessant and all too often triviol pursuit of now knowledge, then the present economic recession may not have been altogether to valu. lis suggested that sixth-form depurtments showed students tearhers wishing to odvise their pupils ou courses should consult "shernative prospectuses" written by sudents "the necrost equivalent mained obdurately unchanged,

lis taid the Federation of Conservetive Students at Eghem this
week that the increases were moonminded and selfish. "It is right
that of a time of sconomic crisis,
when oil in Britain are beving to
make sacrificas; eversess students
should carry their port of the burden. But it must be a fair pert and
not a discriminatory one."

He criticized the new tuition fees

not a discriminatory one."

He criticized the new tuition fees scheme as o whole, particularly tha increases for postgraduate students, many of whom pay their own fees. "The result will be that thousands of postgraduate students will heve to slop their studies and thousands more will not be able to start. Universities now expect to lose at least choicenth of their 51,000 postgraduates next year."

Mr St John-Stevas said the

Mr St John-Stevas said tho aumnmy of the universities was threstened by the scheme. "It has been calculated that the mount of

One of the few gains of suciety's

Professor Becher continued: "If

Overseas student fees rise

is selfish, Tories are told

Estiler Professor Becher strocked the lack of discussion shaut bigher education curriculo. Apart from institutions' individual systems of examination, one reason for this was the tradition of privacy which had grown up around the activity of teaching in higher education "reminiscent more than anything close Vicesian poles of Vicesian poles."

Students' growing causamer power will bring beneficial changes to higher education curricula, Prafessor Tony Becher, of Sussex University's School of Education, said this Speaking at the Cureers Rescurch and Advisory Centre conference at Bulmershe College, Reading, Pro-fessor Becher said the new fea structure and the falling birth rate would increase the need to provide curri-rule attractive to students.

saw the curriculum as little mure than a list of syllahus tapics unrelated to Issues of how it was

unrelated to Issues of how it was tought and assessed.

The obsance of tommon causes anch as N and F lovels, and the elmust furtive privocy with which changes in teaching end assessment were introduced, meant there was virtually no flow of information about new curriculum developments in higher education.

ossay paper as the most obvious changa in assessment. In some institutions this had been partly replaced by course unit schomes, projects and assessment of sominor per-

"Although it is not yet more than a localized tendoccy, o number of departments now allow undergradustes somo choico between differen modes of ossessment." One or indeputinents ellowed students negatiate a foir grade.

Students' needs 'must be Battle over changes plan at

rowan trea to merk the opening of the Molcolm Govin hall of residence Feature, page 6.

Cambridge is just the job

Lost year was a good year for la-ilustricilists seeking recruits omong the graduutos of Combridge Univer-eity, according to the annual ap-pointments board report issued this

The number of Cambridge BAs who entered menufacturing industry was twice the 1975 figure, and the oppointments board staff have detected a positive change in atti-

The increase in fees for overseas 30 per cont. The offect of this will students in the next ecadenic year has been stacked by Mr Norman St IsbnSteves, the Opposition spokesmon on education.

Its taid the Federetion of Conservetive Students at Eghem this week that the increases were mean minded and selfish. "It is right that of a time of economic crisis, where old in Reich are heart to state of the contents to state of the contents to the contents of the contents to the contents of the cont This situation was compounded by the fact that universities, since 1974-75, received converting of

quinquanniei grants from the Government. This annual gront decled universities the oblity to budget on a reasonably sound appraisal of future incomo, "Forward planning is vital, yet its possibility is being donled."

donled."

He continued: "Independence, freedom and autonomy must remain esprosance, however florely the economic hurricane blows. The time to champion these perennial volues is now. We have one of the best systems of higher education in the world. We want to preserve and improve it, and not deatrey it by policies such as those enected by the Lebour Perty over the past three years."

The report ceked both industry and the research councils to provide final year students with more information ebout the opportunities available. Among students fitted to carry on university research there will be evaluable. The DES has already smootheed how many grouts might be given. The best of combat the sevence shorting of quelified teachers in subjects of graduates had suffered less than those from other universities in finding teaching jobs. Most of the industry policies such as those enected by the Lebour Perty over the past three years."

The Conservative-controlled council is supporting a scheme pur for ward by a small working party of college governors, including twu local authority representetives. The union, governors and students are backing a different set of proposals which will reduce the industrial representation on the governing body and allow lecturers to be clocted as guvernors by the stoff assembly.

council."

The council wants 12 representatives from industry, commerce and the professions on the governing body lustoad of the oresent nine. It is stipulating that two should be trades noionists, as at present,

tude on the port of students.

"The stoff have been owere of e much more ective interest in load dustry, a much more general feeling that it is important os the wealthing sector, find n much greater tendency on the part of the undergrodentes to include manufacturing in their list of worth while and useful work," the report salthing and useful work, "the report salthing and useful work," the report salthing and useful work, "the report salthing the next academic year, first enonunced in the Budget speech, were released by the Department of Education this week. The progremme, currently being discussed with the local euthority essociations, will be financed through the Training Services Agency, with support from centrel government funds, and graduate entry to the law was becoming clogged.

The report ocked both industry said the research councils to provide final year etudents with more information about the opportunities with more information and expendition this work.

Huddersfield Polytechnic and the others should be appelized after consultation with the Coufed-cration of British Industry, the Association of Chembers of Commerce, the Engineering Industries Cunnell, the Churtered Professional An attempt by Kirkless Council to alter the membership of Huddersfield Polytechnic's governing body to allow increased Industrial representation is being vigorously upposed by the college's governors, staff and students. The flutdersfield branch of the National Assurtation of Teachers in Institutions, the Manpawer Service Commission, and training boords muintulns that two academic stu representatives should be appointed by the academic staff "in accord National Association of Teachers in Further and Higher Education and the polytechnic's governing body, academic hoard and students' unlon, have each condenned the local authority's proposed changes in the college's instrument of gavernment, now under consideration by the Department of Education and Science, The Conservetive-controlled council is symporting a scheme purforwith arrangements approved The governors, students, and NATPHE want six representatives from industry and commerce, including two from the trailes unions. They also want five members of the full-time teching einficial tables to the full-time teching einficial tables.

on the governing body, justead,

Mr Hary Lahmers, socretory of the NATFHE, claimed this week that the council was untempring to impose a system of government on the polytechoic that had been openly rejected twice.

A DES spokeswomen sald this wack that eli submissione about the new instrument of government would be considered by the depart-ment. If there were a large number

Last month the NATFHE sout of strongly-worded lettor of protest the Mrs Shirley Williams, Secretury of Stata for Education and Science, over the oction by Kirkloas Council.

It seid that the governors had thick eagreed a set of recommendations for the now instrument of government but had been overruled by the local authority. The letter by the local authority. The letter by the local authority is reached by Mr K. J. Durrouls, the college rector, for £14 a week if the governore give their approval of the governore give the the gavernore give their approval of a meeting later this month. The plan has already been agreed in the polyterinie's residences and we fure committue.

Overseas students living in one-room flotiots in the same incliding ony £13.90 e wack, securding in the etudents' union,

TSA to fund shortage

by the local authority. The letter added: "This bronch doolores the orbitrary and high-honded attitude of the education committee and the

OU in Schools Council link The Open University and the Schools Council are planning to igunch a post-experience course for teachers which will examine course curriculum developments and acudent monitoring techniques.

Talks initieted by the Schools Council are now under way. The course will be produced and breadcast by the Open University, but planned by a joint team of ecademics.

Mr Gordon Raitt, foint secretary of the Schools Council, said this week that the course would aim to give teachers expertise in the development and evaluation of formal teaching programmes and the monitoring of student programs. It, was likely to be jointly funded and the Open University would be prepared for a 1980 start.

The course design may be modelled on the university's reading development course, produced by Professor John Marritt, academic coordinator for in-service education of teachers at the OU.

Maker education.

If o emphasized to delegates that he did not sock a return in a norrow and crude vocationalism but rather that universides should sim to educate all their students in general skills applicable to a wide range of vocations. How to relate to other poople in an organization—superlors, equels and interfors—and ou understanding of computers work two, skills, he mantioned.

Mr. Fowier added that universities should the most to devolop post experience courses. They should also have much closer contacts, with schools so that sixth formers could be advised not only about the academic potential of university courses but also the vocations, to which they make load.

It is a common characteristic throughout the world to divide higher, education, institutions, into the noble and the loss noble. There is no point in trying to follow Klog Canue and exhorting the less withe not to ope the noble. What is needed rather as a roman to vocation of its year olds proceeding to higher education scened to have stuck at 14 met cent despite some evidence legate. This might be because the ligher relative nearings in jobs.

Paris: Sue Reid on a recurrent education conference American professor puts further education 'entitlement' plan

A suggestion that continuing educe—
the process system, those that index of subsidies for further oducation and to subsidies for further education and training are those who are eligible at 16 or whonever, compulsory completely at 16 or whonever, completely at 16 or whonever, compulsory completely at 16 or whonever, completely at 16 or whonever, completely at 16 or whonever,

Organization for Recommer Configuration.

Professor Henry Leving of Standard Recommendation for the superior of University, presented in personance of Recommendation for Recommendation

Mr. St. John-Steria: seld tho is now. We have not of the best butterned by the scheme. It has universities we spring of higher deciration in the world, the subject of the control of the



Computer can

service 'slaves'

A new type of cheap and versatile computer has been developed at the Chy University, London, which

could have important applications in research, medicine and industry,

its joventor clinius.

It is the Roving Slove Processor (RSP), designed by Dr John Brignell, working with his team at the Department of Electrical and Electronic Engineering.

The machine is a small portable content of the processor and portable contents.

computer without costly conven-tional peripherols. It is charged with its programme by being plug-

ged into o big master compoter which does the expensive prepara-

tory work.

The programmed RSP can then be datoched from its master and used to corry out complex on-line measurements. In this woy one master can service several slaves at register sites.

renote sites.

Dr lirignell snys his group is the only one in the world working on the technique, as for as he knows. The research has so for been finonced entirely by the university, but it is now othercing connectant interest and Dr Brignell hapes ex-

The possible use of the RSP in electroencepholography (measure-ment of broin activity) is being

studied in conjunction with St Bartholomew's Hospital. For

example epileptics hove a choracteristic wave form that precedes an epileptic fit; its shape varies between individuals but the RSP tech-

nique could create a tallor-made instrument for on individual patient to give warning of on impending

and mounted on a trolley, but a camera-sized version will soon be completed, ond Dr Brignell's long-term aim is to moke the machine small and light enough for patients to corry round as they undergo continuous monitoring. The main problem of miolaturization is to

rove to

passibly from runion fees, civil ser-court,
vants from the Department of Edu- *Not only would not intake of

decling with grants for students and the university has taken special core universities, it was announced that to unrune: the mature students and the £42m that the Government is the marginal are students the great committee to a line of the marginal are students the great in the saving in higher and inaginity of whom not only finance the alies of some £4m at postgraduate themselves but are strongly untilities education in the next two years was expressed in 1975 prices.

At 1977-78 prices the figure was part."

The expuncient the finance students and a lie estimates that there will be reduction in self-supporting students. At nuclei-gruinate level, he says, the Government has falled to take into account the nucleus eligible for the nucleus eligible for the nucleus eligible for the purples of students eligible for the nucleus eligi

542m of the £60m at 1977-78 pri Wales said last week that it cost has been sared, half if it regretted that more awardly

Warwick University will survive 1977-78 without any need for staff redundancies, Mr John Butterworth, the vice-chancellor, tald the university court this week.

stry court this week.

Presenting his omnot report for 1975-76, Mr. Botterworth said that the university had estimated possible savings of £250,000 in 1977-78. "We do not see jobs in danger; we think we shall survive without anything in the woy of a general reduction scheme."

The university had also managed to institute six new acutemic mass.

the university half also managed to institute six new academic posts in that yeer, he added.

He hoped the University Grams Committee latter about the fecurrent grant would contain some infiliation about student numbers in

1981. With the completion of its new sociel studies building in October, Wurwick will have the capacity to expand from its present 4,300 students to some 5,000 by

The university also had curacity in engineering, ond given the ouff and necessary facilities it would be

Applications were bunyant, with olmost 13,700 opplicants for 1,300 places. Subjects which were particularly popular were law, hisi-

C 1

Optimistic Warwick says

jobs are not in danger

by Frances Gibb

The Government is committed to saving at least £60m from further and higher education by 1978-79, onesible from mixing (one spin) for an address in Warwick University control of the saving and the same of the saving and the savin

discuss other ways of saving the additional film (or nearly 121m in the content of the recently fished statements, conditional film (or nearly 121m in the content of the recently fished statements, conditional film differential in fee levels demand that the recently fished statements, conditionally film differential in fee levels demand that the recently fished that if the recently indicate the recently indicate the recently indicate the recently fished that if the recently indicate the recently indicate the recently indicate the recently indicate the recently indicated the recen

Mr Jahu Butterworth : " Time

According to Dr Keith Hampson, secretary of the Conservative Parlia-

*Not only would not intake of the seriagainst able overseas students suffer, but the Government's savings of £280 from the new fee levels, by the notice of the notice of

Proposals to establish a law centre at Kent University to take the place of the conflowingd law clinic were

The nave was agreed recently by the university's furnity of social sciences and follows syposition to an original law centre scheme pur

Professor Simpson's plan, codi rally amounted by the university's law board which originally opposed II, was accepted by the social sci-ences faculty for submission to the

law Society two weeks ago, Under the new urrangements the law loged will have more power on the centre's management committee and the Law Saclety less. Links with the university will be more firm and financial provision more

The controversial devision to close the present law clinic at Kem was taken by the university senate last year urtor a number of clastics with the university and head authorities. Many of these who have fought for muondments in the

Court decision helps student Easter benefit claims indepent was that state, by allowed a £4 p week!

Parliamentary Staff

Parliamentary Staff on their student grant and Students' claims to supplementary could demonstrate the feature of the control of their students. benefit in the Easter variation were being death with strictly in the order in which they were received and by reference in the law as declared by the Court of Appeal in the case of Arkinson v Harrsley Supplementary Brunefit Appeal Tribunal, Air Stanley Drine, Marister for Social Secritic effect. They work that any assessed patents or order. benefit in the Easter variation were that received to assemble their death with strictly in the order contribution might germ

He was being questioned by Alr Michael Shersby (C. Hillingdon, Ux-bridge), alton, when arrangements would be made to deal with applications from students for social security benefit during the Faster caration. He also wanted details

would depend on each claimant's one Provisions) Bill me circumstances and would be calculated under the normal rules. However, the effort of the Arkinson Lands attendments.

mally he taken into according to part of the green disregarded. their jurnit of £2 per weight

actually received.

he the two years showing was established more the

Three new books, entitle mg Adults to Read, he, Adult Literach Schemes,

the Read. Price 45p; To

Adult literacy work 'shoul pass to FE service'

Mr Bill Devereus, director of the make a sizable, contain Adult Lineager Resource Agency, horizon to the teaching in holieves the agency should be dis-handed when its miniaf three years—vice." of operations comes to an end next March.

He advocates that the openey adults have come formed; which will hegin at the end of this unuith, developing the training pro-vision of teachers of adults before handling over adult literacy work on the further education service. Approach to Functional,
Writing in the latest edition of flavo recently been publish

the agency's newsletter. Mi agency. The first is her Heyereux says: "Any organization literacy intors and its mesuch as the agency, charged with stimulating activity in a particular field, cannot avoid the responsibility of considering what can be done to continue that activity when it continue that activity when it routes by an end. contes or an end-

"Our asin in year three is to develop the agent y's training programs of that by March 11, 1978, there will be, in rach authority's area, a substantial rathe of informed programs. Services, 14d, their black that the control of the co

Scots want

Ministerial

vote of our confolence in the

future of lucal government in Scot-land has been passed by the Synt-tish Further Education Association

Workshop in libraries

"It has nothing to do with Communism, it simply has to do with the reolization that education is about people and their teaching is a job for people", Professor Elton

Ha edded that one of the future roles of educutional technology in mass instruction was not to replace bettar teachers.

"The cruciol thing in mass in-atruction is to halp teechors by pro-viding them with cheap, reliabla and readily eveliable hardware such aa projectors and recorders", be

Earlier he had Identified three different teaching methods which had developed consequively since a 1945. These were broedly, maso in struction, individualized learning and group learning. The letter has as a realization that interdependence and human contact were very limportant supects of the process of learnings, shown by the Open University's increasing move towards this method.

Computer link-up includes Schools

Cambridgeshire College of Arts and Technology's reconcily instabled Data General Eclipss 8/200 computer in more providing computing facilities.

The world of James F. Fixx la full of people emptying water vate different stand different stand buckets and trevailing in opposite directions at different stand diffe

AUT urges On the other hand inquiry into dons blacklist

That's not funny

The Association of University Teachers has called for a full impury into a list of "uni-establishment" lectorers found dur-ing a recent student occupation at made me of my rare television appearances last week on a BBC 2 programme called It's no Joke, a Students found the list when they raided the offices of Dr Harry Kay, the vice-chancellor. There are 30 manes on it, divided into three categories: "politically left and generally anti-establishment". "bright personalities with no particular offiliation; not really establishment types: occasionally a bit of humour und language held in Uwist last summer at which scientists analyzed why everything is

There were quite a few celebrities on the programme. Gwyn Thomas was in the studio with Barry Took to comment on excerpts from portant to study homour liceause very shortly modness will be more or less normal following the dis-

trution for whatever porpose. The ullegiance is anotherm to us.
"We want o further investigation At the very least we shall want an assurance that none of these comnieuts go dawn an people's personol one spring of humour. It is my-liles. Staff of Exeter are very angry about this."

Dr Koy said: "This list Dr Koy said: "This list was alrawn up by a senior member of the odministration for me about three years ago. At that time I was a fairly new vice-choncellor and i was considering a series of functional meetings which would help me to get to know jecturers whom I did not meet in the new incoming of the control of the new incoming of the control of th

Exerce University.

Students found the list when the

lishment types; occasionally a bi-aggressive", and "awkward".

Mr Laurie Supper, general secre-tary of the Alff, said: "We are extremely concerned. We object to the proporation of this list by a member of the university adminis-

not meet in the normal course of committee work.
"I wanted to get to know people who were non-establishment, bright, unconventional and talented oca-demics. Being on the list has not been a bar to promotion. I can think of two peopla who have since become reodero. In retrospect, I think the choice of categories was perhaps

Injudicious."
It is not clear that everyone the list is left wing. At least or person mentioned is believed to corry round as they undergo to continuous monitoring. The main problem of ministruction is to develop a suitable power source.

Dr Brignell also foresees important applications of the RSP in the testing of instrument designs.

such a scream.

appearance of religious bellef." Dr Anthony Buffery, a psychologist with a sense of humour, was there too, He said: "There is no one spring of humour. It is may-

> Ken Dodil was also on the programmo. He sald: "The sense of humour can be one of the most One excerpt showed Dr Harold thot "If you're stuck with a iemon you neight as well make icmonade" -which seems obout right.

Then Tony Chopman and Hugh Foot, the conference organizars, said the importance of the event was that h put humour in the text-

row three slumped ocross a opirol notabook, doodling, with mouth half open and mind clearly iding

holidoys. As the rain pours down, he would inavitably get out his letest publications Gauce for the Superintelligent and More Games for the Suparintelligent (Frederick Muller, 95p each) based on Mensa tests.

His introduction laments the fact that not everyona shares bis passion for puzzles. "Some thue ago, on a boach in Florida, I was using a conch shell to exect a puzzle in the sand for a friend. It was a complicated puzzle, and I had covared considerable wind-swept acreags with diagrama, charts, end computations whap I peused to look up—just in tima to see my friend. up-just in tima to see my friend pile the last of his beach gear into the car end driva off ".

The world of James F. Fixx la

the NUS conjerence in Blackpool but week? A pumog Daily Express reporter heard of a breok-in in president-elect Sine Slipnond's office and, bless his mose for news, thought he laid a scoop. Sadly, only kettles were reported missing.

Curfous how people use the edjective "blind" to absolve rhemselves from responsibility for their actions. We have blind cupid to cover our omours impropre, blind drunk to explain our matering offences, and now Blind Ambition as the title of on ambiographical book deaged to account for the behaviour of John W. Deon 111 whose Watergato netlyings would, in a culture gate netivities would, in a culture less tolerant of couraption than our own, have seen him stropped to a milhisey butt and left to float

He has been on a helicopter tour of Britoin expioning his sins by clust show, seminor and international best seller (published by Simon and Schuster). For only £4.95 we can now gain insight into the wit and wisdom of some of the greatest United States nastics of our time.

At Kecla he stepped out of the helicopter not in sackcloth and ashes, but in the neat atyle of sult which was his trademark in balmier and less lawful days. Ha wao to address a seminor of 50 academica who could barely wait to see if he would use all that Lenny Bruce-type vocabulary wide Lenny Bruce-type vocabulary widt which the Oval Room rong during the Nixon era.

In fact be wes becomingly meek In a Fixx

Jomes F. Fixx is not the sort of person you would wont to meet on holidoys. As the rain pours down, he would inavitably get out his



out of the jorgon, 100 banalities cluster round it. For instance, the chapter on "The Semiotics of the

"The circus poster refers to e single event in the future: the performance will take place on a specific day(s). In a porticular place, The poster occessarily gives explicit information of a spatial nature, as well as indicating the data or pecise period after which the poster no longer applies. . . . From another point of view, it is the first itypotherical proposition of an economic contractual exchange sys-

power pinnulng hoo taken a novel turn with the suggestion that they could do mora to keep blg band music alivo. "In Amorica there are 500 universities with such bonds on 500 universities with such bonds on campus", soys Mr Arthur Jackson, outhor of The World of Big Bands (Dovid and Charles), "but here in Britain we have very few, and without sultable training grounds this sort of music could die out eitogether".

your university nevel are now com-plete. As you have seen, it is ex-tremely oimple ond ell that romains is to make small talk with the King of Sweden while collecting your Nobel Prize for literatura.

You will, of course, be needing a title for your course, be needing a title for your course ond one possibility is to run a competition. (As a prize, I shall be spreading pleasant rumours about the winners: first prize—you are the ablest; mind of your generation; second prize—you are edored from afor by the course of the c

General Eclipse S/200 computer in now providing computing facilities for 25,000 students in the college end in secondary schools in and looks et the number of the content of the content

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with private ballyronma. Priona are guarantaed free from eurcharges and range from £48 ler 7 nights on the Costa Breve to £189 for 21 nights in Greece. Tha only additional cost you pay is the 2 per cant Government levy. Sae your travel agent for the Thumson Small & Friendly brochure or phone us on 01-367 4461.

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mentary education committee, the Government will lose at least £8m

and says. "Not only is the feet policy extremely damaging, but it is also rusting a last of money." He estimates that there will be a lass of some 14m at postgraduate

The council of the University of the number of students eligible for Wales said last week that it grants who had not bothered to acceptable means of raising income other than by the increase of fers had not been adopted.". It gave its

Mrs Williams, the Education Sec-hall not been uniqued.". It gave its There were also some 20,000 relary, said recently that she was wholehearted approval to the state-indergraduates on the minimum prepared to meet vice-chancellors to mean by the Committee of Vice-grant whose fees the Gavernment

to cost so usuch more than the present system, the Government should consider abolishing frees for all home students, he says.

Law Society hears Kent proposals

not in the Law Society this week.

forward by Professor A. W. II. Simpson, dean of the faralty.

new low centro scheme are sup-porters of the clinic unil its work.

me in the set per control of the clinic and its work.

Undor the amended scheme are supported by the Sand and the Control of t nass studies, englaaering, mothematics, and courses involving economics. English and history.

Among new subjects, much intarest hed been shown in poychology, theatre studies, and environmental sciences. The physical aciences were responding more theatre. were responding more slowly.

The university council, had as it tould rely on the Wolagrave recently approved o submission Hospital, and others to the area, from a committee in the university he said.

the state of the s

Newcasile Pulytechnic liber Newcosile Polytechtic form year experiment to assen by tiremess of travelling make a meant of teaching his handling skills to under has produced some ex-visual material should

'Concorde mentality' warning in educational technology

Psars that many governments would Fears that many governments would dovelop a "Concorde mentality" as far as educational technology was cancerned and go for big outfits which did not poy, were expressed last week by Profossor Lewis Elton of the Institute of Educational Technology, Surrey University.

"In particular I am borrified by the foct that developing countries are now investing in communication assellites for educational purposes"

 $\{\{\hat{g}_{ij},\hat{g}_{ij}\}_{i\neq j}\}_{i\neq j}$

For soma reason the author omits to say that posters ore generally stuck up with glue, but sometimes are pluned.

Band parade

Bookmaker (6)

to work'

What makes a successful 50-year means the old expectations cannot be fulfilled. One tesk that must be old polities don move from a life of teaching and study in the gracious aetting of an ancient university? For some it has been the call of power, or the opportunity to In life." rebuild Oxbridge on some green and pleasant site, or for others indigestion from the letuses that only plate gless and redbrick can euro.

Leicester, however, is not getting an empire builder or a power broker in Mr Shock. Someone who is not quite sure of the name of the present chairman of the Committee of Vice-Chancellors and Principals may be just a little bit out of the national political swing. But equally someone os femiliar os Mr equally someone os femiliar os Mr Lelcester is the night size to Shock with the filstory of Attlee's retain much of the intimate utage.

Shock with the filstory of Attlee's post-war Cobinet is no stronger to political manoeuvre.

He is a senter inter for whom close and continuing cuntact with students has been one of the joys of academic life. Like all Oxbridge senter tolors he takes a Darwinian view of the world outside—compotition is flerca and the university's role is to release in people their limete tolents so they have a chonce to succeed.

What Mr Shock is getting in Leicester is the right size to retain much of the intimate atmosphore of that original ocademic unit, that college. It will benefit, Mr Shock says, from the new postocation cureer pattern of academics when they inverse cosed demics when they inverse cosed changing trains with such rapidity and now have to make the best truinn, "My joh will be ingenting the voices to work, pulling the stops clean, creating the conditions in which the talent of students and the university outdoned with a malicel faculty and now have to make the best cachers olike can reach its heights."

His viows on university outdoned have the institution ought best because firmly in the "generalist" administrator, the academic who turns his hend to cunning the show rether then the professional office-man, He learnt the grade at the shoulders of two of Oxford's wisest old men, Lord Franks out office-man the first class return tickets", see ha put it.

Mr Shock is an Oxonlen have and the universities depandence on the university depandence on the short of the

consesse by their endowments have consessed by their endowments have ing their first class return tickets."

Mr. Shock is an Oxonien boy end min. From undergreducts study at Balliol to research at St. Antooy's to a university lectureship in politics have came to University College in politics have an experiment of the case of the case university in the politics have a many state of the case of the case university have in has remaiced. Inviting the polytheir of the different has open taught adult blue; he has open taught adult blue; he has open taught adult university extensive the standard blue; he has open taught adult university autonomy but whist the trained and vocational education.

The anti-Oxonians, whose ranks are repressed and vocational education.

The anti-Oxonians, whose ranks are example of this series to the different has of polytechnic and vocational education.

The anti-Oxonians, whose ranks are example of this series to the different has of polytechnic and vocational education.

The anti-Oxonians, whose ranks are example of this series to the different has of polytechnic and vocational education.

The anti-Oxonians, whose ranks are anti-Oxonians, whose ranks are example of the series of the local and vocational education.

The hamilion of the polytechnic and force rise of the polytechnic and vocational education.

The hamilion of the polytechnic and force rise of the polytechnic and force rise and force polytechnic and the polytechnic and the polytechnic and force polytechnic and force polytechnic and force

developed practically, in everyday political debate, in the present olimate, Mr Shock is working on the biography of Sir about its inner strengths ond resources will probably be a key to financial leadership for a cost-counting university than that Iron Obsercation. Retrenchment of smother kind, of people's expectation can bring, is one of his themes, too.

"The sheer woight of numbers and of the sheer woight of numbers and we obterly higher education appears to the control of the sheer woight of numbers at Leicester, be warned.

"The sheer woight of numbers as the cleester, be warned."

Malcolm Gavin Hall of residence, Chelsca College, Lendon.



Mr Mourice Shoek Is an Oxonian

carried out in the next few years is breaking the link that ossumes going to university is the automatic route to certain of the good things

through and through.

Teacher training reorganization: the north, by Judith is Grievances of the deprived child

courty aggreed. In 1974 the area—two threatened colleges, had six colleges. By 1980, if the —On the other bond, the Department of Education and Sci—nic has merged with North ence proposals go through, there will be only one, Newrastle Polytechnic with 900 places. South of the Tyne, there will be live, Charlotto Mason, Ambleside, with 301 pinees, Teesshio Polytechnie with 400, Durhom New College with 500, Sunderland Polytechnic with 500, and St Hild and St Hede, probably s part of Durhum University, with

the Type has the 600 places which the 1008 considers to be the minitwo proposed closures, north al the Tyne, St Mary's, Fenham, a Roman Catholic college, and Northumber-land College, have 600 and 750 places respectively.

Tyne.

Theso two threatened colleges accept that the region has been given its exact due on the basis of the DES criterion. But they argue that this is unfalr in on area which has fewer popils staying an at school thon any other. The north comea bottom of the league in uncertainty in the league in uncertainty in the league in uncertainty. Stillid and SI Beile in merge employment, life expectancy and employment, life expectancy unil

Mr Shock is no theorist of higher education but it is plain that beneath his procticulty is a strategy for the university he will lead in tho

due.

There are doubts, ton, about the ability of Newcastle Polytechule to provide adequately for the needs of the whale area north of the Tyne with only 400 places at its dispusal.

The education department already The education department already Sunderland Polytechnic

In the far north of England, proposols for the rearganization of teacher training have reinforced the conviction that the region is the deprived child of the education system.

Those north of the Type are partitively the norm of the training that the region is the deprived child of the education system.

Those north of the Type are partitively the norm of the training that the partitive training to the north is the lack deptoral institute. But the north is the lack deptoral institute, the north is the north is the lack deptoral institute, the north is t

will be little in spare in the call with now losing done by the two theratened colleges.

On the other hand, the polyterhanic has merged with Northern Committees Callege of Education, which has plenty of purpose-built tracher education arcommodation. It also has plenty of purpose-built tracher education arcommodation. It also has plenty of purpose-built tracher education arcommodation. It also has plenty of purpose-built tracher education arcommodation. It also has plenty of purpose-built tracher education other Catholic edge, in other Catholic edge, i

Mr Reg Sunvalon, dean of teacher education at the polyteclinic, helieves that 900 places will allow his department to mount a good range of courses, including science and mathematics, which mult now ir has been prevented from doing. But he does not ladieve his depart-ment should be any larger and thinks that the area probably needs a reacher training centre outside the polytechnic and north of the

St Hild and St Bede (in University of Durham)

bridge explored. Whether Woles have been formed by continuously allow such the binding 90 or more colleges, many of which had o long history of production.

More hapeful it the vision of advanced work. Although Northamberland College; the polytechnics are young, theretion. The college has the fore, the first having been designed to see Mr Oakes Midgel nated in January 1969, their course in the polyterialist has been played in rhume of higher deep go deep. to see Mr Oakes, Mistary nated in January 1909, there course in rhurne of higher star; go deep.

Was pleased with his ref.

The FE tradition is still strong, it was pleased with his ref.

The FE tradition is still strong, it which Lord Crowber; demand has produced mexpected wanted to be a major for crows and the drecline of higher recommendations had a courses and the drecline of higher technician courses, for example, are direct results of changes in demand had not.

The polynochuses came into

Italess the DES at The polytechnies came important population criterion when the demand for will have to be found; science and technology places was where in the regionity, at its weaken; as a result there was a reducted to the control of the con Newcastie Polytechnic. Increase from 650 in 900 places.

Stiffid and St Berle to merge with Durham University.

Northumherland Cullyne and St Marv's Callon Marv's Callon

education.

The region has the lowest percentage of school leavers going on to hill-time collection and the lowest percentage gaining two A levels. The colleges rest their case on the need for positive discrimination and point and that the nurth west and the east middands have buth received more places than their strict due.

There are doubts, ton, about the nbillty of Newcastle Polytechnile to provide adequately for the needs of the other the:

The colleges rest their case on the ment of the proposals are implemented from the commence of which has the control has the other than the o an attempt is now being made by the SRC to encourage collaborative industrially sponsored research in this mite arraya to be se the polytechnics. fill be o'ts most mergers. lenca provision:

polytechnics offer degrees and her advanced courses in chemistry end applied chemistry
22 in biology end ouplied biology
20 in physics and opplied physics
20 in mathematics

THE TIMES HIGHER EHUCATION SUPPLEMENT 8.4.77

to supply of

Polys' contribution

part of the University of London in the home principal, Or Mahodia

The home principal, Or Mahodia

Cario of the College locanic site next to the home left 26 in computer science (a subject which model eventually k, in which polytechnics were ploneers) by Chelved's Basic Medicia to the science with business or other beautiful.

sno national form arrotations on snodwich courses is especially non-worthy—about 60 per cent of oll seience degree sandwich sindents are in the polytechnics. The response of industry in providing training places to match the growth of sandwich courses has been magnificent with a power to discuss the course of dustry connor be said to have been consulted in infeauce or even given

the opportunity, eagerly served for institutions in make their twit

There is a marked vocational and industrial flavour to must of the

CNAA science courses, and com-mittees and hourds of the CNAA include industrialists as well as ucademics. Due type of degree course which has grown quickly in

recent years is the combined, faint

once approved.

much warning. The merlis and demerits of this The merhs and denterits of this pattern of churse are often debuted, ascally with some pussion, since it is a topic which armises strang feelings. One reason for this is that sandwich courses are much more difficult to run than full-time courses; they call for exceptional dedication by reaching stuff and supervisors—and having dedicated themselves they naturally believe in what they are doing.

it is impossible to generalize, but I am convinced that sandwich I am convinced thin samiwich courses (a) are deliberately sought nut by some storients who have a predisposition to work in industry and think that this is a good way in; (b) amboubtedly broaden the experience of those who go through them, of the cost of extending the courses; (c) help a considerable number of students and employers to find nut enough about each other to confirm a job offer an gradua-

Sir Norman Lindop's address to a conference at London University on scientific manpower planning

. 01, 144	linic scieuce	1970	1971	1972	1973	3974
Degree	Full-time	25.32	2931	3457	37 s y	3746
•	Sandwich	3178	3816	3721	3496	37117
	Part-time	557	939	1272	1.128	1:195
IIND	Full-time	1422	173.1	1696	1529	1449
	Sandwirk	657	s2:5	754	624	530
1INC	Pari-thre	202.1	2277	2105	2069	2107

or general honours course, some-times on a modulor pattern. The polytechnics' contribution to the national total anrolments on

About half the viewed degree (the dens are on sandwich courses; o high proportion of our science sand-wich gradients (mure thou 70 per cent) gu directly into employment and of these over 70 per cent gu into ludustry and comprerce. The corresponding figures for our full-time science graduates are about 55 per cent in each case. The enre-lation between industrial monivation and study pattern is clear. Non-degree courses:

Non-degree courses:

The traditional route to professional qualification of graduate standard by part-time study has been fostered and maintained in the polytechnics, but it has clearly suffered nationally from the diversion of so many students into degree courses.

Whether this is desirable from the diversion of so many students into degree courses.

the point of view of society, hidns-ny or the young peuple themselves is deharable, but the trend has been hard to resist since the adoption of the Robbins principle of demand planning in higher education. The result has been a relarively static position or even a slow decline in HNC awards in science, and a disappulnting period for the HNDs in sciences.

dependent upon the recruitment

than; and (il) facilitate useful con-nexhas, between corrientum content and the needs and practices of 10-in the recruitment of school leavers distry and commerce, particularly in A level reliccts o rent change in the needs of industry, or whether the increase in recruitment of these

the increase in recruitment of graduates oreans that many of these find themselves doing technicion jobs formerly dane by those who entered with school qualifications and studied part-time; there is some evidence that such groduates experience pour job satisfaction.

The HND is a conegury of course which one would expect the grow which one would expect to grow and fill a natural gap in the em-playment pattern. Many of as lupe that there will be a permanent place for the HND, brespective of TEC developments.

time (three-year sandwich) course, the entry qualification for which is roughly full-time study up to the age of 18 with A level passes in at least one rolevout subject.

It is significant rhor 37 oer cent to gridere diplomants courting in

of science diplomnies continue in full-time further education or train-ing; for them the HND has been an opportunity in redeem an unsatisfactory A level performance or

factory A level performance or davelop unsuspected abilities.
Professional coursea either full-time or (mainly) part-time hava bean sustoined in spite of the blandishmants of the full-time dogree market, and the orientation towards industry up students on these courses useds no courses useds no courses useds no courses useds no courses used no course used no courses used no course no

Tanguteerig and Tech Science and Majn. Appellary Health Ailmhi Bus and Soc Subjects
Education
Creative Arts
Humanipes and Lang
Other prof and vocabil

Percentage of lotal eurolaients

(EFW) Chemistry Biology Maths and CS Physics Cambions 800 1670 230 160

A number of polytechnics are in-volved in the provision of advanced City and Guilds courses, and we are hoping to courribute to the development of TEC courses; there is en opportunity here for groups of colleges to devise correlated courses and a number of polytechnics ara integrated with neighbouring colleges to promote joint schames.

The polytechnics will continue to provide a broad programme of edvanced courses in the sciences, with a strong vocational/industrial bias. There are olready n number of post-There ore olready n number of postgraduate courses, mostly part-time,
which are supported by industry,
Including the thriving Diolomo in
Management Studies; these and
other courses are available for those
in mid-career and their numbers
will certainly grow; tha sbort
course programmas, which alraody
involve another 40,000 students a
year are developing strongly.

Involve another 40,000 students a year are developing sirongly.

Like the rest of FE the polyteclinics are in the morket place with their wores, ready to try to meet needs end demands from whoraver they ariso; wa axpect that mid-coreer studies for odults will be one of our main growth areos in the future, when the present anolescent "bulge" has passed.

The outhor is director of Hatfield Polytechnic.

From the King's Road to Tooting

David Hodge traces the

Maria Company

David Hodge frices file 12-year story of Chelses College's scarch for a site The mecommodotion problems of 50 students of London University's mounted to be springfield site in Tuning. Informancely he opening of the new Malening and the period of the story of the opening of the new Malening last week. This merks the beginning of a move by the whole college, which has been planned for more than a feelings of imparlement when he some the plant the looks back neer the 12 wears after the plant to make the plant to make the plant to make the plant to make the plant to move the plant to make the plant through the provision in England and Wales, in the looks back neer the 12 wears alare. The present planticipal, by large and chenged its age to populate the college of advanced technology and chenged its age to populate the college base of Scionce and the springfield site developed and the plant to make the plant to the Springfield site of the plant to th

Technology. It was eventually meant to become a now university in Hertfordshire.

But abortive discussions about its location together with 1bo eecome of the 1960a led to the abandonment of the Hertfordshire move in fovour of an Outer Lendon site, As pert The drastic curbed. The seneme is admirable, designed

The driving fluing the series admired the strong of the st

Ted, a crippled writer whose principel interests seemed to be old. Bert: I don't understand the next
films and—environment. Bert: I don't understand the next
dancing; e North Loudon house fred; Well now Bert I realize that
wife called Angelo; au Australian the wording is open to insinite from
looked after a country estate some
where in the wilds of Hertfordwhere in the wilds of Hertfordshire: and Denis, who remoined it no bere lo the middle of

The test of us! Goodnight.

Denis: Mun.

The test of us! Goodnight.

Denis: Mun.

Tred: Well, I can't.

Denis: Mun.

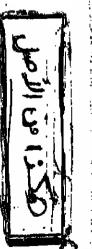
The test of us! Goodnight.

Denis: Min.

Tred: Woll, we seem to have lost
frontic shouting ond receiver in the operator is ogolu there.

But: You don't recalled. He takes some time to realize what it's like stuck out here
pul Angelo and Fred bock within in the middle of nowbere.

Ted: I can only stey enother coupla





The student movement looks much bees come first. Almost every motion in the Conservative vote, and a in those who expect union enuchange of name by one of the ultra- ferences to confine themselves to left groups, the state of the parties their uwn affairs; but the left

of Labour and Communist Purty constitution-first, so that the consupporters, has had its grip on the ferences were not confined in disexecutive weakened by the electronsion of issues that concerned tians, but some members claim this "students as such " and, later, so was because it failed to get its that even matters that had anthing voters out of bed-an unusual lapse to ilo with education could be disfor a group which is renowned for cussed. its well-niled party machine.

Left will cetain all eight top posts, within the terms of the aid, onbut the Federation of Conservative reformed constitution. There were Students will have two instead of one and the alreading instead of one and the alreading instead the alreading instead of heat thought or all doubtful. One of two (two meinhers of the Socialist Sudents Allientee and one International Socialist Sudents Allientee and one Northern Ireland. International Socialion.

The Conservatives, now the almost entirely on the stance that lergest single opposition group, audents should adopt towards mem-

The Conservatives could have pre- Africa.

Nobody, it seems, is uselecting them the executive used against the old of the executive used against the old old of the executive used against the the executiv Left, Indeed, are determined to student issues for its own political keep them in. Ms Suc Slipman, the incoming president, mode e point of thanking Mr Stevo Monn, the only Conservative on the present executive, for his efforts in keeping the Conservatives within the union.

the same after last week's national on the ogenila was directly enuconference us it did after the pre- cerned with the interests of stuvious one. Despite a slight increase dents. This may occasion an surprise whihin the NUS fought a long The Broad Left, the rolling group battle in the 1960s to widen the

Yer the agenda for the Illackanol In the new executive the Brand conference might well have fallen

in the first, organicat centred largest single opposition group, mustered 150 delegates compared with about 100 ench for the two far ieft groups, fu the last resort, however, the ultra-left's combined vore went to the Brood Left rather than the Conservatives, ensuring the election of Miss Penny Cooper 88 treasurer, for instance.

anudents should adopt towards mean to take on sny more commitments, in private ocssiun, Mr Chris Morton in hers and universities. And although the motion remailer to take on sny more commitments, in private ocssiun, Mr Chris Morton in hers and universities. And although the motion remailer to take on sny more commitments, in private ocssiun, Mr Chris Morton in hers and universities. And although the motion remailer to take on sny more commitments, in private ocssiun, Mr Chris Morton in the Brood Left rather than the manner familiar to NUS connolsseurs — consecutive conservatives and the discriminatory charges in college halls—there was no near the conservatives, ensuring the election of Miss Penny Cooper 88 treasurer, for instance.

rected several Broud Left victories in the elections bernuse of the voting system. Still, it would take note the ultre-left must be compared to constemplate to anseat the president, said he expected the Compared to increase slightly then level off. In the chief recturing for withdrawn.

Agoin, when Nurthern Treland the Nurthern Treland the president in that she had made at the president in that she had made at the president in the



Ms Sue Slipman, the incnming NUS president, und a view uf the conference

After the collapse of its service enaponies, the NUS enount offerd to take on any more comultaneous, in private ocssion, Mr Chris Morgan, the transfer of the

hers ran be persuaded to down their bonks, take up their sleeping hags and accupy adulustration blocks.

puses by snorm in 1970; some com-promise could eventually be reached that might bu presented as a qualified victury.

But the current Issues stem mostly from central government ilectsions. The morresser is not dimediately visible on the campus. There is little upportunity for illigit. negotiation that can lead to results.

the Conservatives within the union.

That reflected one of the dominant themes of the conference: the independence of the conference: the independence of the NUS and its members of the NUS and its members of the number of the number of the number of the sit in its conference of the number of the sit in its conference of the number of th



the result might be some change in the result in the credit.

This problem has two results both clearly illustrated by the debases a Blackpool. First, the Broad Left is reluctant in back widespread menopoints because the only ground that can benefit is the debase of the mining megatianed compositions devalues the rule of the established leadership. The impossibility of winning megatianed compositions devalues the rule of the established leadership. Hence, to the debase on fee increases, the unforcemparame agreed that the compliants should be on petitioning and hobbying through the rule of the polarity processor is also be a mining and hobbying through the rule of the polarity processor. The conservatives meant in the less that the latter sill stikely to but, tests. Currently, he is chairing an increase is some this examption of the polarity of the handicapped; he is oversecing, the feet will be the first still feet will be seen the social society—o countrover than three times for high aren et present.

At the momean theory of committees the processor is the momean theory of the manicapped; he is oversecing. Mr Edward Gierek, since he taok at the momean theory of the manicapped; he is oversecing. Mr Edward Gierek, since he taok at the momean theory of the manicapped; he is oversecing. Mr Edward Gierek, since he taok at the momean theory of the manicapped; he is oversecing. Mr Edward Gierek, since he taok at the momean theory of the manicapped; he is oversecing. Mr Edward Gierek, since he taok at the momean theory of the momean theory of the manicapped in the control of the manicapped in the mass of sutering and the mass of sutering and mass of sutering and mass of sutering and the west and the mass of sutering and the west at the mass of sutering and the west and the mass ally achieving anything are, in the gesture of frostration than a call to

the recurrence of the recurren

WARSAW to be graduates and the universities bave taken over responsibility for training. Teorhers without degrees are having to do rigorous correspondente courses to apprade their qualifications.

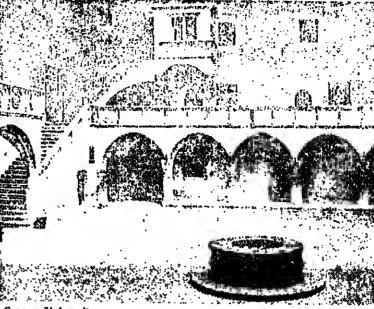
qualifications.

All this will have a profound effect on higher education when the first "gradoates" of the 10-year school emerge in 1988. For at the age of 17 a two-year "hot-house" school is planned for those thought most suitable for full-time naiversity study. Intense sperialization will be the keynote. Professor Sezezepanski will have little need to worry about the dibution of humboldt.

Students now follow formal lectures six days o week. Learning by rote is still largely the order of the day. The luck of textbooks, especially in modern languages, purs an extra burden on them. So does the fact that fire degree somewhat fact that first degree courses have recently been out from five to four years while curricula have remained basically the same.

Consequently, despite the stiff entrance examinations and tough competition for places (in some oubjects there can be as many ns 10 applicants for each vacancyl, the drop-out rote remains very high.

Under the new system it is hoped that entrants will be better prepared for more conceptual work at undergraduate level. One of the aims is to involve students in re-



Cracow University.

or be lent money on virtual interesting or be lent money on virtual interesting to build their own houses; an impossibility in a town.

Doctors fare even better: not only may they be offered a basic salary double what they could expect in Warsaw, but they can qualify for free housing whit a guaranteed minimum of three rooms and a kitchen lmum of three rooms and a kitchen.

Despite these inducements a re-cent job placement interview with 200 Waroaw-based mediral students only produced a dozen willing to leave the capital. As the hemi of the Graduate Work Department of the Ministry of Employment said: "Sometimes we wonder if it is possible to construct socialism our possible to construct socialism out-

Trying to get a better spread of trained manpower to Increase in-dustry's efficiency is one of the ley tasks of the Institute for Science Policy and Higher Education, the government's academic "thluk

assignment is cidtural and intellectual death.

At this Ministry of Employment senior officials confirm the difficulties. They point to the astonishing statistic that elmost one in eight of employed people in Warsaw heve is ona in 32.

Students usually heve to study statistic manners. On graduation they heve a right to employment to that eree. Most atudents ere obviouoly con-

l'uland's papers and political jour-nales are foll of ordeles on the need fur "full und rational" em-ployment.

One schemo being developed by the institute is to create centres of excellonce in different fields at different universities. At present, the brightest students alm for War-sew University, its technical university and various specialized schools together with the ancient Jagiol-looisn University of Cracow.

Although all the country's lusti-tutions af higher education aro theoreticelly equel, it is certain that eny attempts in hive off prestigious departments through a centrol diking would be fiercely resisted.

early into nearn research is mother facet. The idea is that the research should be linked to industrial plan problems and that many of the re-sesrchaes should come from indus-try inself into the universities for Policy and Higher Education, the government's academic "think tonk" located in a quiet rourtyard off Nowy Swiat, Warsaw's main thoroughfure.

Tho institute, which is attached to the Ministry of Highar Education and the Polish Academy of Sciencea, roordinates recearch and development programmes which are often purceiled our over many different, uninisteries and industrial enterprises. It does much himself to the permenont education aspects of the committee of experts wedded to the permenont education aspects of the committee of experts report. Its researchers should come from industry itself into the universities far the work. In that way, students would be brought far more quickly into contact with the world of work. They would olso, it is haped, devalop effinities with the company they are helping end beace join it on gcaduation.

The institute, too, remains wedded to the permenont education aspects of the committee of experts report. Its researchers should come from industry itself into the universities far the work. In that way, students would be brought far more quickly into contact with the world of work. They would olso, it is haped, devalop effinities with the company they are helping end beace join it on gcaduation.

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The institute, too, remains prises.

The institutes are largely autonomous but none the less still firmly in the main tream of the mayersity organization.

Professor Rybicki, a lawyer by training, is known in the Wear as the go-between in the intricate negotiation, which have been taking place over the past three years between the leadership of the Con-ference of European Rectors (CRE) and the Soviet Union.

In an allusion to academic human rights, he made the simprising state-ment that he had inspected the lists of those Polish professors and lecturers invited to seminars in Wes-tern Europe and found they were almost entirely confined to "nonsupporters of the government".

"This meant that a distorted pic-ture of Poland's academies was being exported. "We do not have that kind of reasorshin", he said, "The only thing we demand of a visitor is that the institution invit-ing him chould make aure he has never been a Nazi,"

Britain was singled our by Professor Rybleki as being particulorly unwilling to set up exchonge programmos omside the fromework of the Ilrivish Conacil. At present the Conacil administers 25 full exchange scholarships a year from its busy Warsaw headquarters with its well-parconized library and reading room, Additionally ft organizes summer Additionally fit organizes summer ochouls in Britain and shorter visiting professorships.

This nrrangement is murit appre-einted by the Poles, but they era ulso keen on establishing for mora direct links. They point to tha United States having links with all the rountry's 10 universities and 10 technical schools, and in France and Austria having sat up joint com-missions of their respective vice-chancellors' committees to aliscuss a comprehensive network of ex-changes with Polish institutions.

liking would be fiercely resisted.

Beinging the best undergraduneo arly lotu team research is another seet. The idea is that the research is bould be linked to industrial plan problems and that many of the researchars should come from industry itself into the universities far the work. In that way, students would be brought far more quickly tentative plons for an agreement be-tween the LSE and Warsaw's Plan-ning School.

But the Poles, who frankly admit that the exposite to Western Jach-nology and know-how is one of the main attractions of closer links with non-socialist countries, are anxious for more informal rontacts.

The mood of acedenics towards the government is hard to assess. Most of the dissidents come from acadamic beckgrounds but their numbers are very emell. Mr Jerzy Kuberaki, the Miniater of Education, diamissed them as "professional protesters" and omphasized

From bisexual consciousness to the oil A significant string of the production of th

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education correspondent

I am ant sure how people become education correspondents nowadays, but 20 years ago it was very simple. A single leader page article in a manional newspaper was enough to give one the standing of an expert, there being no memore else in the field.

My own passiont to authority was a closely-researched little piece headed "Anomalies in Lundon School Plant", followed soon after: warris by another called "Why the Eleven-Plus Should Stay". In no time at oll I was interviewing Mr Hsrry Rée on television.

I was to say to him to "Would you say the 11-plus was crucial, Mr Rée?" and he was to furrow his brow for a second and reply: "No. I don't think it is crucial", and thot was more or less how it went out. Both of us hove changed since then.

Things were not all pien saliing in those days, though For my Lon.

Anyloy, good times were soon in tome for the education correspond-

MIN EDENDECE SELEN

ticules by the distribution of state could dilicular should dilicular shou

reminds ms how may be a could differ a sum of State could differ a sum of State could differ a sum of State could differ a sum of Interest and the point best in genting someon at the college of the past 10 years, with o marked countries a sum of large number of the past 10 years, with o marked charge.

A new type of gam of rules of rules.

The employment pattern of scientificantly in the past 10 years, with o marked charge. Increase in the number of new graduates of the past 10 years, with o marked charge. Increase in the number of new graduates of the past 10 years, with o marked charge. Increase in the number of new graduates of the past 10 years, with o marked charge. Increase in the number of new graduates of the past 10 years, with o marked charge. Increase in the number of new graduates of the past 10 years in the number of new graduates of the past 10 years in the number of new graduates of the past 10 years in the number of new graduates of the past 10 or 12 years in the past 10 or 12 years in science graduates is less specific to a like rumprehender particular industries that the college of the new countries of the second of the past 10 or the college of the new countries of the second of the scandard of the sum of the college of the new countries of the sum of t

They were not all pids allifured to the word frame of the short of the word frame of the shor

Daphne Jackson discusses how curriculum changes

professional recognition

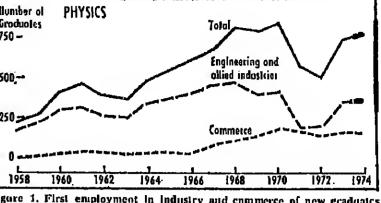
degree courses having a component of 50 per cent ur more of physics.

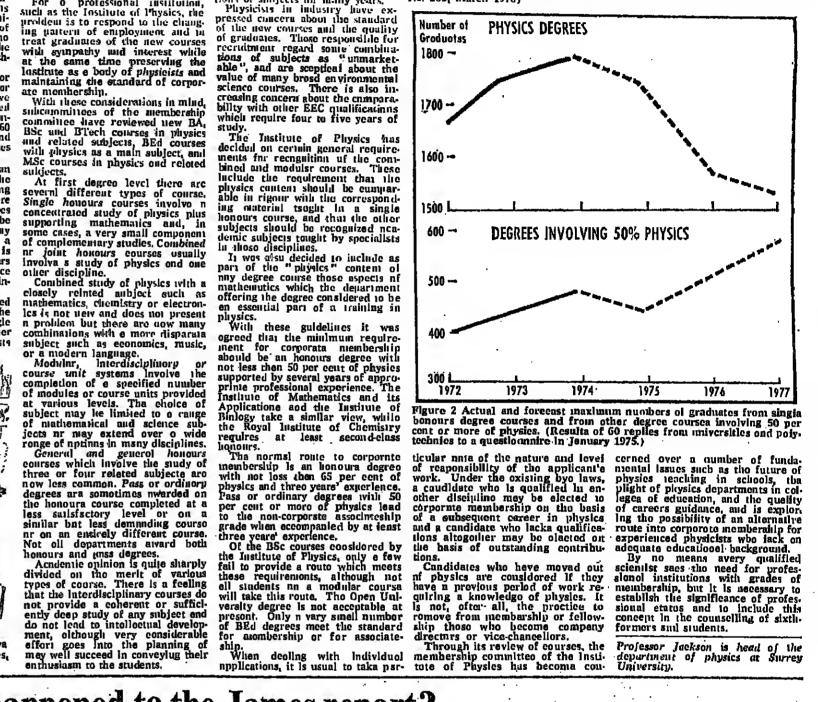
The more unusual courses are not solely the invention of the polytechnics; indeed only secon to eight per cent of the new graduates in physics in 1973-75 held CNAA qualifications. Many of the combined degree courses are provided by the

floations. Many of the coordined degree enurses are provided by the new universities and potentially the largest source of inter-disciplicary degrees is the course noit system of London University. The tripos system at Combridge University has allowed study of varied combinations of subjects for many years. Physicists in industry have expressed concern about the standard of the new courses and the quality of graduates. Those responsible for recrudencent regard some combinations of subjects as "unmarketable", and are sceptical about the value of many broad environmental science courses. There is also increasing concern about the enaparability with other EEC qualifications which require four to five years of study.

when require four to five years of study.

The Institute of Physics has decidual on cermin general requirements for recognition of the combined and modular courses. These backets the resolutions of the combined and modular courses. luclude the regulrement that the physics content should be comparable in rigour with the corresponding material tsoult in a single honours course, and that the other subjects should be recognized near





"assistance" when one hears of growing concern in Britain itself of the "irrelevance" of much of higher education to meet its own economic and social neede.

The "rolevance" debate is often itself on assumed direct relationship between education investment and economic growth

investment and economic growth which treats expenditure on formal education primarily as a production outloy. From this assumption it is easy to argue that the more n course is "job-related", the more its development should be eccouraged. However, if relevance is to be meaningful, it needs a wider definition; such a definition may be derived from a view of education as a catalyst for social and political development as prerequisites of economic progress.

New initiatives

Reachers are needed in education for education for education for education for education for the recent deliberations of the Swaun Committee m university work averseas and concern of house in many countries. But the impact of higher twifes on house have each focused attention on hor release of the spirations of the consomically less-developed countries.

The Ministry for Oversea Development in the Ministry for Oversea (Doby) should be supported in a wide to recover and concern for supported to come to this country.

The Ministry for Oversea Development in the Ministry for Oversea (Doby) should be supported in a wide to recover and concern for the relationship of the Diritish of the Countries.

The Ministry for Oversea Development (Doby) seems to be developed countries. Says and aspirations of the consomically less-developed countries.

The Ministry for Oversea Development (Doby) seems to be developed to make a support their countries to the developing world of the price of the consomically consomer student form studying in the country. The Ministry for Oversea (Doby) seems to be developed to make a support their countries that the developing world be supported in a wide to cooperation, cluttural in all the country. The many countries is the consomically very many to the developed world. Today many to the country of the consomical to the country of the country of

It is, bowever, difficult for many developing countries to establish the seeking a British degree of provery courses they need to subjects such as engineering, construction and applied sciences due to the relatively high cost of such feculties in universities and colleges, and because the indigenous people already quelified con command much higher rewards working for multi-oational compenies.

It is against these demands that the existing British coortibution might be measured and future plans laid. In general it might be said that, up to now, Britain has accepted large numbers of students to atudy on courses in our universities and tolleges not specifically developing of the needs of the overses students, and those we have all too often exported to the developing of countries our existing courses and in too often exported to the developing of countries our existing courses and in the developing world both in establishing their own institutions.



ance from developing countries who ore themselves engaged in education to their ewn country and assisting by helping them to design if eurideular and teaching materials, which and design their discipling knowledge and give them more confidence to develop relevant courses on returning to their country;

on returning to their country:

Opromoting research into the needs information on existing countries, possibly courses, possibly by relating the project/dissertation demands of of staff:

project/dissertation demands of courses to these research interests of staff; of establishing a more effective dislogue between the currural and loging countries in Britain and loping countries in Britain and loging countries in Britain and for there are studied in the countries of the countries of the Council for Relative the Council for Education of the Council for th

establishing centres for special Avenue, London,

redilege may an hare the to pure on a special prost constraint of fusilities and the correspond to 1 to respond to 2 to reducational sid;

• decembing foliat constraint the early stages of experiment can be taught to the final advanced small for concerned the final advanced small for concerned the foundations.

**I bope this doesn't oteon you've failed in Britain and the substitute in the final advanced small for the foundations.

**I bope this doesn't oteon you've failed in Britain and the substitute in the foundations.

Leonardo.

The reassessment of Whatever happened to the James report?

The Jantes report looks very rusty after a short passage of time because it depended heavily on steaty increased financial fesources. Central to the thinking in the whole of the degree is a the whole of the document is a programme which was based on an ncrease to teaching staff " and an xpansion of full-time courses". It might be thought rather inkind to resurrect the James Peport at a time like this. But it is important to re-examine the report, because much of government white he is Yellow Book", let elone the subsequent decisions, as well os the remarket the remarks of ex-members of the lame committee, show e curious of half-remembered notices boot the report.

"To none of these recomme

"To none of these recommended that "we read in paragraph 2.1," do we ottach greater importance, for they determine e great deal of the thinking which underlies the report as a whole." The crucial importance of the third cycle, os originally covisaged, was that it concentrated on professional understanding.

The personal education was undergone from the point of view of a teacher, and the pioressions! competence was envisaged as a something more than a few skills. J

developing tworfs is a special to the service of th dege of teaching methods and of educational theory."

By this, the committee do not mean additional year tacked on the mean an additional year tacked on to some other mixture of the cond of a degree course, or some other mixture of the condition of a degree course, or to some other mixture of modules." They imply that there should be a coostant commexion between research end the techniques of toaching; they imply that a stocassful college should be a proper of the condition of the distribution of the condition of the condition of the condition of the distribution of the condition of the distribution of the distribution

New attack on 'gang of four'

Another possibility ivas a pre

Planning chair for

The director of the National Science Foundation has warned of a bottleneck in academic appointments

Young scientists 'being An entire generation of origin groung minds may be lost to scientific disciplines because there or no teaching pasts left in universities along the director of the National Science Poundotion warned the Association of Graduate Scinois recently. Such a high proportion of young and aridilic-aged decturers in science and aridilic-aged decturers in science and anidilic-aged decturers in science and origination. An entire generation of bright the biggost obstecle, the loss of a plant going if e teacher wonted to poundotion warned the Association of Graduate Scinois recently. Such a high proportion of young and aridilic-aged decturers in science and origination will perform the biggost obstecle, the loss of a plant going if e teacher wonted to reise fees bas been rescinded. McMester best decided not to raise fees the decision. Are the decision. Are the decision. Are the decision. Are the three remaining university to sold method to reise fees bas been rescinded. McMester best decided not to raise fees that be remaining university to the original sping if e teacher wonted to prices) to \$1,708 lo 1975. Private cellege costs locreased from \$2,134 to \$3,592. The steep rises of the past few yeers hove hit lewer and middle lineomo. Is millies particularly hord, according to the Conference Beerd, and middle lineomo. Is millies particularly hord, according to the Conference Beerd, and middle lineomo. Is millies particularly hord, according to the Conference Beerd, and middle lineomo. Is millies particularly hord, according to the Conference Beerd, and middle lineomo. Is millies particularly hord, according to the Conference Beerd, and middle lineomo. Is millies particularly hord, according to the decision. Are the decided not to raise fees bas been aroand to reise fees but to relie full-time student in 1967 (current prices) to \$1,000 per the three the three the public colleges costs locreased from \$2,134 to the three three the three three three but the conference been at the second from \$2,134 to the three three tha

and anidife-aged lecturers in science and engineering departments now had tenure that normal ments now had tenure that normal mention, including retirement, would not open chough nositians for young PhDe, Dr Richerd Atkinson said. "Yet it is they who must pick up the torch if we ere to maintein a strong research capability in our universities."

There had been a steady decline in the preparation of younger PhDs

There had been a steady decline in the proportion of younger PhDs on compus in recent years. In physics, lucturers holding a PhD for seven years or less fell from 40 to 19 per cent between 1968 and 1975. At the same time there had been a targe increase in the proposition of tonured teachers, reaching an overage of 70 per cent in 1974, with physics standing at 78 per cent and chemical engineering at 81 per cent, he said.

All this was executed by the man projected fall in student engil.

All this was exacerboted by the sharp projected fall in student enrolments, reflecting the falling birthrate and the consequent reduction of the teaching force. Dr Atkiesen said the 18-year-old group in the United States would peak at 4,300,000 in 1979, and efter that decline so that by 1990 it would pumber fower than 3,500,000—n drop of about 20 per cent in ten years. There would therefore be a drop in undergraduate and groduete student numbers.

with the store be drop on undergradures and grodueste student numbers.

The Notional Science Founded how the supplying the street of the suppl

Top HE post for Professor Trow

Professor Martin Trow has been appointed director of the Centre for Research and Development in Higher Education on the Berkeley the Acedemy for Educational Standard of the University of Calling Contract of Contract

set to peg charges

up at olmost all institutione, raising the cost of a university education in this centery to a new record lovel. Resident students at the everage four-year inetitution will pay \$3,005 at public celleges and \$4,905 at private colleges. The

Another possibility 1988 a pregroume of sculor research scientist grants for nutstanding and productive scientists. The Government might puy half the dadividuel's salary to a maximum of \$25,000 e year in allow the scalar research scientist to spend mere time ou research. The university would use the salary saved to appellit a young tencher to take ever his tenching daties and elsu do some research.

A third idea was to openage \$10,000 dropped from 43 to 13 per cent of new university our elmento between 1967 and 1975. The under-\$4,000 end \$10,000 to \$15,000 foullies share remained ebent the same—3 and 27 pur cent respectively. Households ceraing over \$15,000 on the other hond Jumped from 26 to 57 per cent of the tetal.

dities and elsu do somo research.

A third iden was to oncourago joint university-industry research institutes which would be housed at universities and under university unspices. Judustry, cenid be encouraged to teke pert in these through tox jucentives as well as through expended Government cupport for cooperative basic research projects conducted by teams of scientists from both industry and universities. Fur atudents ot some of the more Fur attndents of some of the more prestigleus private univereitice fees elone will be ever \$7,000 e year. In this category will be the Messachusetts institute of Technology (\$7,950); Brewn, University (\$7,430); University of Pennsylvenie (\$7,575); Columbia (\$7,500); and Priuceton (\$7,495). Harvard, Yele end Sarah Lawrence passed the \$7,000 arark last autumn.

Public colleges Doubts over higher fees Mao's widow and her 'henchmen' face new charges for foreign students

Public universities in America will be able to hind down their tuition casts next year to virtually the same rate as they now charge. But private universities will egeln raise their fees in the autumn.

These are the findings of two recent surveyo by the New Yerk Times and the Cellego Entrance Exemination Boord. They found that on everage feee at feur-year state universities will still be \$621, whereas foes at private colleges will ge up 6.3 per cent to \$2,478.

Other coats, bowever, such as residence and board charges, will ge up ut olmost all institutione, raising the second will be governing boords of three in the control of the previous will seem to see a private colleges will ge up to long the long to the province of the less than the colleges will ge up 6.3 per cent to \$2,478.

Other coats, bowever, such as residence and board charges, will ge up ut olmost all institutione, raising three is governing boords of three in the cast of the long that the colleges will ge up to long the long three is governing boords of three in the cast of the university of the cast of the long three is governing boords of three in the studying three studying the cast of the second three is governing boords of three in the studying three studying the cast of the cast of the previnces will of the province will long to the province will long the cast of the c

Incomo femilies particularly hord, necerding te tha Conference Beerd, e prestigleus New York financiel analysis body. Students whose families make between \$4,000 and \$10,000 dropped from 43 to 13 per grovince a lot of money.

It left it up to the universities te implement the risc, but those that do not will not receive any money to cever the gep between the old tultien fee and the new ene. It wee estimated that universities not charging the higher fee ceuld less ereund \$200,000 in eperating rovenues in 1977-78.

rovenuee in 1977-78.

Severel universitiee dispute the smount the provincial government thicks it will eave. Because of this, the Association of Universitiee and colleges of Caucde has commissionally vereities, together with Statistice Canada, to make a full report on foreign students, finding out how many there are, where they are

The People's Daily published a report by the Clilnese Academy of Sciences on Merch -9 violently ettacking the ectivities of the gang of feur " in scientific work. The most serieue charge egainst Mao'o ividew and her supportere concarne the devasteting earthqueke of isst summer. concarne the dayastelling estiliquese of last summer.

China hee long bean engaged in earthquake prediction work until according to the repert, relevant information was collected in the eren of Paking, Tlentsin and Tongshou last July. The "gang of four" and their "henchmao" in the Academy

senete of the University of the voted unenimously agains a senet at the senet seid e speciel commines as be set up to leek into the teneral the University of Calonia the University of Lethings burded of governors have mended e \$300-a-year fet has for the coming year, but be a sesked for on official immunication.

of Sciences, however, ignored the warnings of professionel science-logical observatories and ameteur observation ridsts; and ab were responsible for the massive loss of life and destruction of property switch



Higher fees t squeening of

Union sues in salary dispute with new institution

At the tione that Dr Atkinson was outlining these proposels to che ennuel meeting of the Western Association of Groduate Schools in Albuquerque, Now Mexico, the National Science Foundation published a report of the employment of women and unlawrities in science. This does not note in a proper state.

Students at Dartmouth College may for credit towards a departmental new design courses to be differed as major by the department concerned. I may be intricting aeminars on aubjects of their choice.

These seminars are designed to Rights end the World Community allow students some freedom in the which has been approved for credit towards the major in government.

Professor Trow

Professor Martin Trow has been appointed director of the Centre for Research and Development in Beckeley tampus of the University of Call-formant in Market and private foundation funds amounting to about \$500,000 the few of the programment and private foundation funds amounting to about \$500,000 the few of the programment and private foundation funds amounting to about \$500,000 the few of the programment and control in the programment and private foundation funds amounting to about \$500,000 the few of the programment and control in the programment and private foundation of the sponsor that leave the world Community which has been approved for treeds the world Community which has been approved for the counter and the programment and private foundation of the sponsor provents the major in government. The change is one more ment festing the tree control in the programment and universities of the counter on the chapt that leave the world Community which has been approved for treeds in the community which has been approved for treeds in the community which has been approved to the chapt the chapt the programment of the programment of the programment of the counter on the programment of the counter of the counter on the programment of the programmen

Iran police spying on students

Accusations that a progratic cooperation with Iran at College, City University York, is being used by secret police te spy on Iran dants has led to widespread versy, an official legular about on the centre at the programme. from Martin Felasteln CAPE TOWN run the programme.

The programme began and
tha eutumn. It previded to
exchange of teachers with
Netional University of Irm, it

CAPE TOWN
Higher education for blecks in
South Africo has received e double
boost with the legaching of a new
institute legaching of a new
institute scheme for more popular
education end a Bill to provide
greater autonemy fer three black
universities.

The education scheme, launched
by the South African Council for
Higher Education (SACHED),
involves a weekly newspaper,
Propie's Cellege, and the cetablishment of itation wide study greups.

The 24 page educational newspaper will appear free each week
with South Africa's largest black
assistance will receive the series
indying through correspondence
them congested government schools,
the integers of proventment schools, Netionel University of the second change of graduate spatial joinc conferation to research mutual interest. There are 300. Irenian students at 100. College though so far the he

gremme.

Some weeks age there eccusedons that Savak the eccusedons that Savak the eccusedons that Savak the eccusedons to keep the gramme to keep on all etudents. Queen's set up a comm

coordinating the coordinating the of college lecenters overs

New newspaper and more autonomy for African students

"eccelerating the odvancement of scientific cessorch should be the focus of all work", that "theory eheuld in no wey he deprecated", en dthat specialist research tooms should be ellowed to function with lass emphes's on the people of lavolus. less emphesis on the need to involve the "masses". Party leaders in research ineritates were to recognize their new limitations out invite professional scientists to hove

vite professional scientists to hove more say in decision-making.

Teng was rountly enulented as en "unrepentent copitalist rouder" in the first half of 1976, when it was claimed that he was trying to restore the days when scientists sought "personal feme end gola" end kept their precions knowledge to themselves. His dismissal fram oll his nosts in April 1976 was partly due to this.

Now, however, a different various.

parily duo to this.

Now, however, a different vorsion is being effered. According in the Pacply's Doily orticle, it was "the Perty Central Committoe and the State Council, in lloo with Cheirmon Mon's important instructions" that colled for reform. It is said that Hun Xue-feng and other leading comredes stated explicitly that the modernization of scientific work meant plenning chead of the needs of production—in other words, pormitting ocientists to engage in theoretical and long-term work. It was they who insisted on "full

future pregress". Some scientists were criticized for their unvillingness to delve deeply loto their subjects and for being afreid to read and learn from fereign scientific jeurnals.

The rapert recommended that The respect recommended that The significance of this statement,

The significance of this stotement, which was ene of several orticlos on Chinese science which have appeared recently in the Chinese press, should not be underestimeted. It emfures that scientists will now be given a greater meesure of freedom to pursue their research, os "theory" and "high-level" knowledge will no longer be directly. os "theory" out "high-level knowledge will no longer be dirry wards. It also raises on interesting only nobut 'Teng Hsine-plng who still remalus whileut office.



Camping in the streets of Peking ofter lost year's earliquoke.

Practical

and incleate chould reach a jarge

annear of students,

The cost of the scheme is estimated as RS0,000 and, according as Actingual there are severel block and as RS0,000 and, according as Actingual there are severel block and solicited students at most with a superior of the control of the

More courses faced with increased quotas

from Lynn George
AMSTERDAM regard the cuts us a necessary eril.
Whether or not a faculty applies for a moth to the Universities Countries of the control of the Universities Countries of the Universities of the Univer Despite protests and demonstrations by pupils and university students, the Universities Council, the highest odvisory body to the government on nulversity aducation manters, has proposed a further round of admission cuts in over-subscribed courses for next year. This meens that entering the consideration. So far the council bas failed to recognize the need to have an admission round the council bas failed to recognize the need to have an admission round to have an admission round to have an admission related to the council bas failed to recognize the need to have an admission related to the Universities Council has a place of the university applies for a quotient to the Universities Council has a place of the universities and universities and universities council has a place of the university and the proposed of the universities council has a place of the university and the universities council has a place of the universities council has a place of the university and the university and

Sncielist-led chuliting government.

The decision on the cuts, however, is not yet finel. The second chember still has to decide whother to occept en emendment to the tentiorary 1972 University Enrolmoot Act frem Dr Ger Klein, Higher Education Secretary. This would give the secretery the ultimate say in cuts instead of the Universitles Council. It would also prevent the practice of overcrawded faculiles not requisiting a cunto and then apply.

onling a plant in a pour Teng Hsine-plag whit still remains whiteut office.

"Ether the presont loodership is which seems highly unlikely in which seems highly unlikely in the seems highly the seems highly unlikely in the seems highly the seems highly unlikely in the seems highly the seems highly unlikely in the seems highly deceased the seems highly unlikely in the seems highly intended to occupit on the cuts, how the seems highly indended to occupit on the cuts, how the seems highly indended to occupit on the cuts, how the seems highly indended to occupit on the seems highly indended to occupit on the seems highly intended to occupit any indended highest high in the seems highly intended to occupit any inde

Independent board set up in bid to end fees row

JERUSALEM
id the inoviteble in over tuition by one year of the period of repayment. This is dnubtless due to tuition fees and the reta of interest ond the reduction by one year of the period of repayment. This is dnubtless due to the 80 per cent increase in tuition fees and the reta of intilation on tuition fees and the reta of intilation. o an ettompt to avoid the inoviteble muel confrontation over tuition fees, the Minister of Education and Culture hes eppointed o seven-men cempilitee to docide on tuition fees for the coming accedemic year. The Tho provideon receins of o representatives each of the government, the universities and the National the universities and the National Union of Students. The chairman, a dictieguished member of the Knesser (parliement) accompable to all, hee been given three votes on the

committee.
All porties heve agreed to accept the committee's decisione. However, the NUS has in the past faced the refusal of student mileus in Relie

sudants made by the Central Bureau of Statistice reveals that in 1975/76 60 per cent of spadents worked during the whole you end onother 10 per cent worked sportalically. Thirty-six per cent worked in public and community services, 18 per cent in office work of various kinds, while 21 per cent worked as touchers. Eighteen per cent of the students peid ou tultion fees and about 40 per cent received grants and/or loans. Work wee the only source of income for 42 per cent; 21 per cent said that it was a searce of income; 40 per cent received support from parents or relativos; and die income ef 13 per cant came from the earnings of their spouses. Forty per cent of the students were merried, one third of them mortied couples, both of themselves students. Manatee par cent of the spudents, Manatee par cent of the spudents lived in student hostels, 22 per cent to ren-The councils of the universities will be given locesed pewers, including the power to oppeint rectore, to determine the size of eterf end to fix student from William Purvis

The councils of the universities of determine the size of eterf end to fix student from the size of eterf end to fix student from the size of eterf end to fix student from the size of the Minister of Bentu Administration while the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Bentu Administration in the size of the Minister of Minister



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The case for legal disquiet

Although muly peripherelly within its terms of reference, the question of legal education is relevant in almost every topic under sunly by the Royal Commission on Legal Services. If, os la possibile, the Commission recommends some alteration of the existing inverter structure of the legal profession—whether by fusion or some less radical reurganization—the lamplications for legal education will be considerable. The same will be true if there is any move towards considerable. The same will be true if there is any move towards a national Isgal service employing salaried lawyers in deprived areas to fill the gaps left by private procritioners. Legal education finds itself, therefore, in somewhat of a vectom. The recommendations of the Ormrod Committee (which looked lime the subject in detail in

a national lagar analonal lagar anal

well es from other public and private stetemionia, ell is not well in ovidence to the Royal Commission while gel education.

The dissatisfaction takes a number of forms, but most of it constructes on the content of law courses being offered in England and Wales both by the professional establishments. Part of the problem weat alobarated at a recent conference, on the role of the problem was pointed out that who only six out of ten students taking their lirst law degree became solicitors are well-in the content low of Judicial Administration. It was pointed out that who only six out of ten students taking their lirst law degree became solicitors are well-in the consernably.

Two other epeolic points mode in ovidence to the Royal Commission. The first is not set in ovidence to the Royal Commission what a sociol-chilcal evaluation of acclinos on disputed in the ubstruct—is linter-preted in real cases as a manifester, there is no cese for continuing to provide largely space of education.

This has necurred for instance to provide largely space of education to provide largely standants to provide largely standants in the content of oner. Secunity, 11 is organized that the Orniral recommentation of Judicial Administration. It was pointed out that who only six out of ten students taking their literature of the probability and includence to the Royal Commission on the content of the probability and includence to the Royal Commission. The first is not tell the recommentation of the probability and the very suggestion that in ovidence to the Royal Commission of place—while not disputed in the ubstruct—is interpreted in real cases as a manifestation, and the very suggestion that and the very suggestion that in ovidence to the Royal Commission of section long students to open the content of the

Sir,—I was intrigued by the statement in Donnis Marsilen's review of Cycles of Disniventage (THES, Murch 25) that "there is no unlequant discussion of the workings of government burgeneracies such of government burgeneracies such of the work of the workings of government burgeneracies such of the work of the knowledge that where one steps on much it invariance.

statement sheet it appears in the contact of a general tenark about the schools, transmitting and confirming, disedyantage—a well-known thesis which I em finding it wascisome continually to rebut, so rife does it appear to be emong educational jecolologists, to be emong educational finding in the solid sign myself as the Vice Chairmen of the Centre for Advice and Information on Educational Disedvantage since this body, though financed by the DES functions as an independent mgs similarly from the Schools Broadistions and is constituted not dissimilarly from the Schools Broadistic and I into a government bureauties and I into e government bureauties of Willsden, High Schools Willsden, Hopping with the help of the wast majority of the academic at really magnificent endpleting a second to more which the help of the wast majority of the academic Scieft, less and really magnificent endplets to the force of the force of the force of the portal second to more.

Now that he highest levels is seen for which he wast majority of the academic Scieft, less and really magnificent endplets to the force of the force of the wast majority of the academic Scieft, less and really magnificent endplets to the force of the force of the force of the force of the wast majority of the academic Scieft, less and really magnificent endplets to the force of the wast majority of the academic Scieft, less and really of the wast majority of the academic Scieft, less and the wast majority of the academic Scieft, less and the wast majority of the academic Scieft, less and the wast majority of the academic Scieft, less and the wast majority of the academic Scieft less and the wast majority of the academ

MAX MORRIS, Willesden High School, Doyle Gerdens, Loudon NW10.

LETTERS TO THE EDITOR

Technology and society

Sir. of coad John Dancy's article andney extremists. The rich weny of Cancorde being used to pertorm beritage of the Bruish buellermal research into damage to the name simblery nowards rechanded with layer is an example at the tech-great interest and sympathy. How indugical myth. The superb engigreat interest and sympathy. However, I feel that one further point deserves emphasis, more in elaboration than criticism of Dancy's thesis.

In thinking of technology in abstract, undifferentiated terms, we run the risk of polarizing dehans (and practice?) about its place in society, into two equally invalid extremes. On the one hand, we have the view which Dancy criticizes from its Platonic roots to its modern.

This example in the level meaning in adopted myth. The superb cogic meeting quality of many of our technological myths. The superb cogic meeting quality of many of our technological morning in the level, and so that the level in the hological myth. The superb cogic meeting quality of many of our technological morning in the level, in the level in the level in the level in the modifical myth. The superb cogic meeting quality of many of our technological monomitents is often underlying the provided hyperbolic meeting quality of many of our technological monomitents is often underlying the provided hyperbolic meeting quality of many of our technological monomitents is often underlying the hological myth. The superbolic meeting quality of many of our technological monomitents is often underlying the hological myth. The superbolic meeting quality of many of our technological myther than the provided hyperbolic many of our technological myther the provided myther than the provided myther than the provided hyperbolic many of our technological myther than the provided hyperbolic many of our technological myther than the provided myther than th yn branches, namely the tallacy that locause we have produced par-ticular technologies whose use and dealar technologies whose use and to technology and the engineering objectives are murally outrageous, perspective will achieve little with then technology as such must be rejected for its inherently repressive character.

Poly rector defended

BRIAN WYNNE, Lecturer in Socialings, University of Lancaster,

Are the engineers whose diffu-

tint: when a letter such pe this becomes more newsworthy than the article which has provoked us response.
Yours foithfully
JOIN PATTERSON. Assistant rector, Huddersfield Polytechnic.

Sir. As a product diviously law schools: soliciter of some year. denti , I heardly et. relativism of voleties, 17 ties, March Date of the conference of published to the conference of the conferen

l am particulation However, exhibitions to consider his views that to seriously and systematically the should be put or is smill ethical questions pertaining the function of inc. char universities the relevance of the industrial economy is totally dependent upon the constant stimulation of technological innoprofession came of graduates who t inadequately, "kept find a niche in lete. votion, fed increasingly by science.

this university k to degree in business he's 1977, which is super ping the interdigist

bully. Such courses but

Duller States and Best Lacever wither there denies what they need to

For the purpose of the economy, or administration or administratio many technologies in durlern times

and the expansion of technical
control over nature per se is the
dynamic logic. Remands to dis
criminate socially and ethically in
this necessive converse is from this process convert in from a predominantly technical problem to a
publical-mural one—they imply
important and name of the cake noise
mut only how to inflate in they
only imply zero growth or neo
Platonic Luddism to those who are
mable to conceptualize the ethical
and social dimensions.

Are the enuluners whose differ-

were medical students.

This slaggering cohort continued in the 1820s to throng the university's overcrowded classrooms in which they were taught by only 27 professors, of whom merely two were sinecurists. It represented a peak of student corolment which was not to be equalled again until the 1870s.

The most successful exposure of Are the emphoers whose diffusion throughout society you advance (culturial, March 11) whatever their technical making able to make meaningful routed with those broader questions in which their technical work is embedded?

Your failfully,

IRIAN WYNNE,

Lecturer in Sacinhury.

the 1870s.

The most successful cyaosura of students was Thomas Hope, whose chomical clasm was from 1810 to 1830 always greater in size then the total number of freshmen (about 400) admitted each session to the whole of Oxford or Caobridge; in eight sessions more than 500 students per scasion witnessed the chemical drome he staged.

From 1770 to 1830, then, Edin-

encycloposdias, as well as to the famous Review.

Where teeching at Oxbridge was largely done by transient college fellows, ini the Scottish universities each subject was teught usuely as a permanent responsibility by a specialist professor who enjoyed an lotra-murel monopoly of his subject—though vulnerable of Edinburgh especially to severe extremural compatition from flourishing private leachers. private leachers.

with Oxhridge, for example, Ediliblargh impased no religious test on students; professors welcomed all students and thoir fees, regardless of religious affiliation.

Again inlike Oxbridge, Ediliburgh was non-residential, the cost of religious affiliation.

Again inlike Oxbridge, Ediliburgh was non-residential, the cost of subsistence being appreciably to such a subsistence being appreciably for the edition of the subsistence being appreciably for the method of the subsistence being appreciably for teaching miletony was generally for teaching nbility, on well os demonstrated schulors by interestions with the electors, counted heavily in appointments to chairs. When Charles Babbage canvassed in Edinburgh in subsistence being appreciably for the electors, counted heavily in appointments to chairs. When Charles Babbage canvassed in the electors, counted heavily in appointments to chairs. When Charles Babbage canvassed in the principal cloim was successful teaching for example, appreciably for the principal cloim was successful teaching.

Once ensconced in his coching from his teaching from his teaching from his teaching from his teaching from his teachin comment university in the Englishspeaking world, partly as a result
of the policy pursued by the cown
conneil of appointing to chairs
proven teachers to attroct students,
and provon scholars to confer reputoolon. And the 25 years of the
French wars saw a doubling af sudant numbers from about 1,000 to
about 2,000, of whom almost half
were medical students.

This elargerine content continued

of religious atfiliation.

Again unlike Oxbridge, Edinburgh was non-residential, the cost
of subsistence being appreciably
cheaper. Those students intent on
graduation had to be "middling rich" in order to pay the requisite
cluss and graduation fees; yet pour
students could attend classes on an
ad hoc basis, or even be admitted
gratis by a benevolent professar. A
student, permanently resident in

Jack Morrell on the scientific fortunes of Scottish universities at the beginning of the last century

The rise and fall of Scottish science

The celebration last year of the 250th anniversary of the founding of Edinburgh University's medical school confirmed that many faminas Scottish contributions in science were nade by Scottish professors. That was true even of genlagy, a new science created between 1786 and 1830, in which accomplished devinces such as James Harion were conspicuously active.

Though Hutton has been culogized as the futher of modern geology, an actinuminas controversy about his work was energetically farmed hy university academics such as James Harion were conspicuously active.

Though Hutton has been culogized as the futher of modern geology, an actinuminas controversy about his work was energetically farmed hy university academics such as James Harion were conspicuously active.

Though Hutton has been culogized as the futher of modern geology, an actinuminas controversy about his work was energetically farmed hy university academics and Lasile. But professorial involtance in the prosperity of the agarcally the professorial previous and the state of the community was hardly new; after university which, from the modern geology was created in 1737 largely by Professors Macharia and Mouro primus as a conthiplece for their university which, from the manufacture of the continumination of the continumination of the agarcally has been added to the prosperity of the agarcally his the continuation of the agarcal field trips in an until the R23a; by the land decidence of the former could also use the aniversity masseum. This system at pracessors welcomed alton the academic market place was connected with several autrooccurs of about 12 by main in the medical faculty. The medical reaching manufacture exercised in their century the medical professors to maintain or possibly increase its maintain or possibly

The promotees of University College were dominated by Whig alumni of Ediaburgh, while the mojority of its staff was treined in Scotlend—usually at Edinburgh. Its organization, too, replicated Edinburgh's. A wide range of aubjects, liberal and professional, was caught in a secular context by lectures to non-residential aludaitts who had free access to single courses; and free access to single courses; and professors were remunerated by smell salarles plus student fees. Madicine was so central to the success of University Collega

success of University Collega that in its early years it bnd only two departments, that medical end the general; and by 1834 it had built the first hospitel attached to an English university used for clinical teaching of medical studgots. As of Edinburgh, aclonce was taught not only in medical courses, but olso as essential liberal education end as desirable unamental accomplishment.

ninamental accomplishment.

At the same time es Edinburgh bogsn to feel the effects of competition in teaching from inattutions modelled on it, the lack of organized research training at Edinburgh also became apperent. Though many professors voluntarily enried out publishable research, Edinburgh was simply not suffused by the research ethos: there was no equivalent in the "Athene of the North" to the lustitutional insistence on nyecialist Institutional insistence on apecialist renearch, discovery, and publication, associated with the new University

renearch discovery, and publication, ansociated with the new Uolversity of Berlin.

Edinburgh's forts wun the comprehensive popular sciontific and medical lecture course, although ona professor. Robert Jameson, did menogs to produce a research school of geology devoted to discoverines of Warner. On the bosis of his lectures, field trips, and his mussum, he established the publishing. Warusrian Netural History Socioty in Edinburgh es a mouth-plece for his school 1 and he also gave much tack informal research edvice and encouragement to prospective geologists, academics, and explorers.

In the lebertory pased subjects, index professory pased subjects, in which practical laboratory work and sciantific rasearch schools were beginning to flourish.

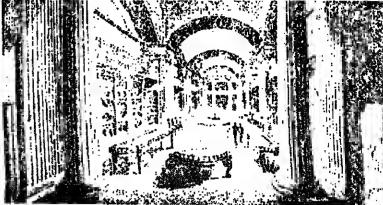
The most telling mample of Scottish decline and German ascert.

and sciaotific rasearch schools were beginning to floirish.

The most telling namplo of Scottish decline and German accordency is chemistry, a subject in which Scots were conspicuously active. In the last inlied of the eighteenth century Joseph Black had made Edinburgh chemistry world famous through his hold, simple end elegant lectures supported with impeccebly neat lecture demonstrations, displayed in his prime to audiences of about 200.

Not sumprishally, lils publis came to occupy importent university posts in Scotland end Eogiand, such as Hopa (Edinburgh). Thomson (Gasgow), Beddoes (Oxford). Temant (Combridge) and Garnett (Anderson's University, Glosspo).

While Hope at Edinburgh foilowed in Block's footsteps by abendoning his research end concentrating on teaching, Thomson estab



Edinburgh University's Natural History Museum, whose keeper from

nattern: witness the medical school at Munchester—founded by Thanass Turner, who deliberately inspected Edinburgh in 1820 for a blueprint.

Must importantly University College, Landon, though slightly indebted to the universities of Berlin, Bonn and Virginin, was founded in 1826 mainly on Edinburgh lines.

The promotees of University College were dominated by Whig aligned of Edinburgh while the

indefinitely employed.

Though some of liope's lecturo pupils anceasfully pressed in 1823 for a laboratory et Edluburgh, from the mid-1830s ambitious chemists did nor turn to the university's chemical laboratory but to Germeny. One of the first pilgrims was William Cherles Honry (Edinburgh MD, 1827) who spent the session 1835-36 working in Rose's laboratory at Borlin and Liebig's ac Gisssen.

In naturel philosophy, too, the Scottish universities began to be less self-sufficient, with ambitious young men beginning from the 1830s to derive essential sustenance from Cembridge. The cess of James Devid Forbos, the first of a distinguished group of Scottish mathematical physicists to hold Scottish natural philosophy chairn, roveals both the strengths and weaknesses of Edinburgh in effording appropriete training for Johe Lesile's successor in 1833.

He regarded his time under

Leslle's successor in 1833.

He regarded his time under Leslia as an elementary and incomplete eppreodiceship: for the skills of experimental research he had to turn to his fellow Scotsmen Brewster outsida the university; for advice in the application of modern French analytical methods to physical research problems, he successfully approached Whewell et Cambridge; and he took Alry's lecture decionstrutions at Cambridge as a model for his own.

Forbes quickly iotroduced an od-

uf government bureaucracies such spicere one steps on muck it invariants of the School Broadcasting Countries and sticks 17HES. Senior Lectures (187).

Polytechnie of Huddersfield any insertition difficultier

flowers? Yours futhfalls. TOTAL HOLLOWAY

(luguas, College, ... I Combridge

Private leachers.

For emolument he relied mainly on class fees paid directly to him, and not to the university. Usually hin hesic solary was low, the extreme casa until 1858 being five Edinburgh medical professors who received no selary wherevery received no selary whatsoever.

Scottish professors, therefors, were usually aware of the financial need to be student orisotated; their incomes mainly depended on



An engraving of 1787 showing Joseph Bleck, professor of chamistry and madicine at Edinburgh University, giving a lecture demonstrution.

Ending East-West Czechmate Few poople will be surprised to learn that in Dr Husak's Czecho-nloyakis pollitical occeptability is the size, one non of getting a good job. In pacticulor, the freezing ont of ficiase enamies? In the university of the size of the 1968 Soviet invasion. West Europo overlap, Mnoor betting a good job. In pacticulor, the freezing ont of ficiase enamies? In the university of the 1968 Soviet invasion. West Europo overlap, Mnoor betting a good job. In pacticulor, the freezing ont of ficiase enamies? In the university of the 1968 Soviet invasion. When the social is the study is another; and the social is social invasion. The young accountability of the social is social invasion to propose the social invasion to the social invasion that the social is the study is an anamer's Balgard in mercial of the social invasion that the social is the social invasion that the social is the study is an anamer's Balgard in mercial in the social is the study is an anamer's Balgard in mercial in the social is the study is an anamer's Balgard in mercial in the social is the study is an anamer's Balgard in mercial in the social is the study is an anamer's Balgard in mercial in the social is social invasion, the social is social invasion, the social is social invasion, the social invasion in the social invasion i Few poople will be surprised to what is becoming over more

Poland, for example, houses the mily private university in the social fist camp, the Catholic University of Lublin. There are no camplainte that its graduates are dinoriminated egainnt in lob plecements. It is also elmost automatic for Polish academice to get permission to visit the West (this in true for ell Poles). The British Copneil recognizate this reality and for the purposes of its academic exchange programme it

F

reality and for the purposes of its academic exchange programme it grouph Poland under northern rather than eastern Europe. Mr Gierek, for his nart, is fond no setting up non-party committees of experts to advise the Government. Two such have bean on the state of educotion and consumerism in a socialist society 1968e 9).

Between the Pailsh and Casch positions there is a wide appetrum of treatment of academics in the Sovier sphere of influence, but

The Structure of Sociological Inference by W. Baldamus Martin Robertson, 17,45 ISBN 0 85520 130 4

Gi Baldemus, recently retired from a tiunultuous few years se chalrman of the Birmingham University department of sociolngy, nlways had one of the most perversely creative minds in British sociology. Coming back Into ecademic life letc because bo was e refugee with relatively little English, he lived out a long period in the department of conimerce first as a research assistant, then os a lecturer. It was for a science of sochogy, but after

minded colleagues, however, in what wes basicely a clistial way, not simply coudemning their philosophic naivety, but rather, taking it for granted that all socaled social science was morally and intellectually impure, comparing their various vices and defects with those of others whum he had known. Equally he did not simply rest content with coudemning the makedly capitalist nelentorion of much of the research which he saw about him. He located the paradigm minded colleagues, however, in within which most of his colleagues roirect. worked and explicitly set up his own paradigm against theirs.

own paradigm against theirs.

So he survived for many years, moving into the department of sociology, and eventually into its Chair, using his exportences to draw conclusione about what was always his main intercet, namely the analysis of the social activity called science. The only time when auyono can remember him becoming absolutely importent was when the SSRC asked him to ateto his hipyotheses and his sample design in a received him become him becomes and he received him process can be described.

The question which arises is the question which arises is the first the should be about research and to several theoretical progress to be his view that the should be about research methods or ubout theory, but about the method of over though most research is based the analysis of the social activity called science. The only time when auyono can remember him becoming absolutely importent was when the SSRC asked him to ateto his hipyotheses and his sample design in a received theoretical progress occurs and that process can be described.

Unfortunately one is never whally of the theorizing the theoretical progress can be described.

Infortunately one is never whally of the theorizing of the various chapters is, in some allegance by his own standards, all and its limited in the paradigm. The progress occurs and that the progress can be described.

Unfortunately one is never whally of the theorizing of the various chapters is, in some all and the progress can be described.

In a number of areas of empirical traditions in order that he should be about the should be about the allowork which is based that the paradigm of the form that the should be about the about the method of the theory is a simulate genes that the luminary brains and that the paradigm of the theory is a simulate genes and that the progress can be described.

In a number of areas of empirical rediditions in order that he should be about the method of the heart line when the paradigm of the theory is the paradigm. The progress can be described.

In the So he survived for many years,

it mies to say. All one lins to do is to point out that the statement is incomprehensible, leaving it open whether it is the fault of the student, the teacher or the

This appears to leave futle hope issistant, then os a lecturer. It was meaning an unlikely satting for someone accepted as he was in the rith and complex traditions of German sorial science.

He reacted to his quantitatively however in the solicity of bounding his own sociology of knowledge.

This sociology of knowledge, the sociology of the sociology.

ing trithin the parattigm strore to

Raldamus applies this paradigm to n number of areas of empirical research and to several theoretical traditions in order that he should be

Ideal types and real people

Sociological Inference. At the very outset he tells as that the present position in social science "has its rompensations".

It is possible to cover topics that not lung ago were inaccessible to It is possible to cover topics that not lung ago were inaccessible to beginners. Inday one can put on a blackboard a difficult state on the other hand haddmans has ment, picked our at random from any advanced theoretical text, without having to explain what

The main part of the book douls Tho main part of the bank douls with the methods employed by Parsons representing functionalism, Lazarsfeld representing the survey tradition, and modern Marxism, whose methods Baldamus sees as being sunmed up in a recent German dictionary of Marxiam terms. It is here than the nation of theoretical method is developed and the nature of the reasoning which it implies is then followed through in two chapters dealing with the method of Kant and Hegel.

Tha best theoretical method

Tha best theoretical method amarantly seems to turn on the dichotomous division and ranking of terms. Buldamus's view is that: Provided that eymmetric dichn-tomous schemes are limited to combining two dichotomies at a time, the distinctive nature of net-theoretical inferences derives in fact from the opposition of con-secutive ranking trials and the restriction imposed by the available reservoir of dualistic concepts. concems.

That is to say we lake two diche tomies together and try out un analysis in which first one and then the other is given primacy of rank-



A poster depicting women's waitime fashions, from Word 1914-1918 by Arthur Marwick, published by Fontage M.E., Croum Helm in hardbark at Lo.95.

Mary mother mild

Alone of All her Sex; The Myth and the Cult of the Virgin Mari by Marina Warner Weldenfeld & Nicolson, 66.50 ISBN 0-297-77077-2 Another major than Course, the press Re-

Miss Warmer's study should sell of women and the mit of very well. Indeed, with such busine of the Yirgin lenk fashionable ingredients, or religion, and rightly rejects of the translation between model of the translation between t nrt, history, sex and feminion, he contraction netwern assemble rould hardly full, especially when approached with such clarity, intelligence and cuthushism. Yet in bol of matriarchy in a same ways the mixtura may be too. Some ways the mixtura may be not tich for Anglo-Saxon Protestant tashes, Stylistle overkill involve the tich for Anglo-Saxon Proteston to the for Anglo-Saxon Proteston to tastes, Stylistic overkill invasion the argument at critical moments, often toured up by clickes of onlie standous banality, while the kind of sub-Malraux literacy sensibility ("under her pean-hong diodent for the pean-hong diodent for t

The Durd Vision: Afterd Schutz and the Market of the Control Science of the Control Science

Unfashionable masterpieces

Among the major writers of the Auguston age, only Gibbon has been more seriously neglected by modern ordice than have the subjects of these two books. Damian Grant bringe to the revaluation of Smollett e forceful and independent mind e forceful and independent mid passionetely committed to his author; and John Loftis presents the caso for Sheridan with the hieldity and historical insight we have come in expect of him. That both works leave the ready distorted to the content of the content o

Grant's book has some characteristics which are disconcerting for ollatt's udmirers and will reduce Smollatt's utilitiers and will reduce the efficacy as a tilea to the uncanverted. It is intemperate in tone, unreliable in its judgments on writere other than Smollett, and obsticately narrow in its rejection of other critics' views. After endorsing David Herbert's statement that "the spirit of truth was the soul of [Smollett's] foncy", Grant Interprets that statement in a mansoul of [Smollett's] foncy", Grant Intarprets that strucment in a mannar which greatly diminishes its critical valua. Despite his desira to praisa Smollett at Fielding's expanse, he eliminates a main ground for such praise by his scapticism about serious claims for Smollett as moralist. Not content with the reasonable view that formal criticism offers little help with Humphry Clinker, ha generalizes his attack so as to condaout the structural analysis even of Ton Jones. Hie misuse of quotoione from Baka may be excused, since Blake

chapters, however, grow naturally out of the faults of its earlier mes. Having turned from content, morality and form to what really interests him, Gram offers evidence passionetely committed to his author; and John Loftis presents the caso for Sheridan with the fucidity and historical insight we have come in expect of him. That both works leave the render distable tusk a critic faces when he attempts to celebrate such unfashionable masterpieces as Roderick Random and The School for Scandal.

Casan's leave has some charge. reversions to simplistic concepts of literary history and national character, the chopters which explors Smollett's dramatic monipulation of contrasting stylee are both original and illuminating; and there is wisdom of a mora conventional kind in the final account of "romantic" elements in Farhom and Clinker. Readers competent to recognize the vices of this study will find that it substantially enriches their understanding of a major novelist. Loftis's book, on the other houd, can safaly be recommended to undergraduates. Based on a detailed and appreciouse knowledge of

offers many traps for the unwary; but it is harder to excuse his conviction that Swift was "non-Aogustan" and that Sterne was "un-English". Deliberately or not, the critic establishes for himself a Smollettian personal irascible, sensitive, lotellectually passionate, rhetorically excessive and fier comme to Ecosonis.

The merits of the hook's later chapters, however, grow naturally out of the faults of its earlier ones. However, translet from content, morality and form to what really interests him, Gram infers evidence by a proper awaveness of The Anti-

was catering in 1799.

Moro lantoriant, however, is the ultimately hesiant character of Loftis's praise for The School for Sciendal. His comparisons with Congreva and Murphy are not unhelpful, and ha writes intelligently obnut the ploy's links with the comedy of sentiment; but he accepts too easily the traditional verdict that Sheridan's "special ochievement" here was "the ivit and elogonce of the dialogue". The greatness of a was "the ivit and elogonce of the dialogue". The greatness of a major comedy is never quite as simple as that; and Loftle's book, admirable as it is in many respects, still leoves room for a critique which will achieve for The School for Scondol what Brecht and Empson achieved for The Beggar's Opera.

Speculator in verse

Coleridge's Poetir Intelligence

terized by an extraordinary ferment of ideas, a rior of semi-scientific, semi-philosophic speculation match-ing the instability of contemporary society. Coleridge, like Peacock, was In the famility and firm to what reality in Weakerley and Promitting of the account of Pisarra is information of Pisarra i at the heart of this intellectual tur-

However, this is not the whole story. Beer's book is somewhot more than an intellectual biography, as it does attempt to show that Coleridge's speculations are relevant to the poetry. for The School for to his poetry. In so far os this attempt is concerned the neglect of Fruman is, of course, excusable. Since most of the ideas of Coloridge and his contemporaries have at best been only partially corrobo-

rated by later scientific, psychological, and philosophical developments, it hardly matters what he cribbed from English thinkers, or German, and what he arrived at independently. What matters is what those notions routributed for good or ill to his poems.

Now, the exposition of the con-

Now, the exposition of the con-temporary intellectual lackground and what Coleridge took from it is shown by and along the place in the and what Coleridge took from it is thorough and clear. Its place in the poetry, too, is lucidly demonstrated, where certain passages made only vague sense before, they now read precisely. Whether they become better thereby is rarely discussed. To find that Wordswordt and Coleridge probably really did believe that man's primary consciousness was physically related to the vegets tive world and therefore that burgending spring would affect him sensibly and morally more than winter is interesting enough and it illuminates many passages, as does

cepts that would otherwise hove been difficult to articulate. It is a pity that ha did not pass on to a more critical exomination of the poems in the light of these ideas. His excellent reassessment of Tha during Moring shows what might Aucient Mormer shows what might

Allab Rodway

Poetry readings

undergraduates, based on a detailed and appreciouve knowledge of English dramatic and theatricol history, it gives e resdable and stimulating account of the multipla

Words Into Rhythm
by D. W. Harding
Combridge University Press, £5.95
16BN 0 521 21267 7

Ona could say, ungenerously, that this densely pucked, sensitive and rewarding book were written to eleasy recipo for success. Everyone who cores about the matter knows that the rhythms of poetry (or for flat motter prose, on which thera are two choptere) are vitolly important; nobody much understands English poetic rivythms; and many bave written in the field with little merit or much self-confidence.

Professor Harding combines the guildles of a professional psychological processional psychological procession processional psychological procession potential pot

ception of "set": the perhaps consentially neuro-musculer readiness to find end/or impose one pettern of rhythm, one Gestrit, on whet will be received, rather then another.

Herding rejects the streft-jacket in metre" and "licence" that common speech which can be called the street sets of the street sets of the street sets in litself to be rather more open-ended end "gleetory", than that tho

merit or much self-confidence.

Professor Harding combines the qualities of a professional psychologist with those of one who has library critic, and his ergument recurrently bridgee the gap between literary critic, and his ergument recurrently bridgee the gap between and burnan behaviour of a far wider and burnan behaviour of a far wider range, "Rbythm in speech forms part of the extensive end intimate patterns of bodily movement, including inclpient onverment end posture, in which the apeaker's emotive in guara whether whet is et sisue is how the series of the general control of "set": the perhaps correctly be read. But in any case, it is perhaps over-simplifying makes usa of the general control of the self-confidence.

Professor Harding combines the sence of speech rbythm in verse.

Tha result of this sensible, flax sensible, flax in the sensitive approach is a point in the book is to essert that in seture in that the study of the language that all rhythmical writing begen "(my Italics) with a nusnee of olmplist feature of the book. Over and over, the points mode, even if in the end one doen not quite agrae, ore refreshing and rewarding, and the book is the sensitive approach is a libid and sensitive approach is a flight level of individual comment think play in this best feature of the book. Over and over, the points mode, even if in the end one doen not quite agrae, ore refreshing and rewarding, and the book is the sensitive approach is a flight level of individual comment introl sensitive approach is a flux all rhythmical writing begen "(my Italies) with a nustured speaking of the language that all rhythmical writing begen "(my Italies) with a nustured speaking of the language that all rhythmical writing begen "(my Italies) with a nustured speaking of the language of introl of the sent all rhythmical writing begen "(my Italies) with a nustured speaking of the language of introl of the sent all rhythmical writing begen "(my Italies) with a nustured speaking of the language of introl of the sent all rhythmi metrical matters begin I think to treospire. But the fect that one strives to formulate each disagreements as these is itself a measure of this most notable book.

John Holloway

British Academy

Proceedings of the British Acodemy, volume LXI, 1975, is published by Oxford University Press of £14.50.

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Applicants resident in UK should size and one copy to inter-University Council, 90/01 Tottonham Court Road, London WIP COT. Further particulars may be obtained from either address.

KENYATTA UNIVERSITY COLLEGE-KENYA (A constituent collage of University of Nairobi)

Applications are invited for the following posts in

EDUCATIONAL COMMUNICATION and TECHNOLOGY DEPARTMENT

PROFESSOR:

a should have a Ptr.O. In Educational Communication and by and have extensive teaching and research experience, initiate and direct under and post graduals meserch is Preference will be given to those with qualitications and o in the utilisation of aducation dommunication including

LECTURER:

Applicants should have a good degree, preferably in Science, and a postgradado professional qualification. Solence teaching experionos el Geondary School level or above le essentiel. Profesance will be given to those with qualifications and experience in educational communication rotating to design and utilization of aducational resources for Gelance Education. Aspolince will be expected to teach introductory coarses in Educational Communication and Technology in relation to Gelance Education.

Regalte University College deals with Teacher Education as its major proccupation. Experience and qualification in teacher aducation are therefore our preferance, lack of which does not necessarily lead to disquellification. All members of the Academio Staff am expected to participate in the supervision of Teaching Practice, Salary Gosles: Professor K24,326 K25,106 p.s. (83,107-23,576 p.s. eterling). Lecturer K21,806-K25,086 p.s. (81,232-25,232 p.s. eterling). [K21=21,90 staffing.] The Grilloh Government may supplement solaries in the range 23,822-23,834 p.s. [staffing] for married appointees or 2,544-22,305 p.s. eterling) for single appointees increasing the salaries in the range 11,822-23,834 p.s. [staffing] for married appointees or 2,544-22,305 p.s. [sterling] for single appointees increasing the salaries of the sa

Gatalied applications (2 copies) incleding a surficulum view (applicants about give three names of Academic referes and their sadrasses and at the same time request them to send their references direct to the Register without delay should be sent by sirmall not later then 29 April 1077. to the Begisters, Kanyatts University College, PO Box 43844, Natrolis, Kenya.

Applicants resident in UK should also send one copy to the Inter-University Concil., 80/91 Tottament Court Road, WIP ODT, Further particulars are systable from sither address.

KENYATTA UNIVERSITY COLLEGE-KENYA

(A constituent college of University of Nairobi) Applications are invited for the following posts in the Fasahy of

1. SENIOR LECTURER IN CHEMISTRY DEPARTMENT

Applicants cloud hold a Ph.O. in Chemistry and have considerable experience in University teaching and research. Appointes will be expected to teach undergraduote programme, supervice perturnies cludents and carry our research. Any specialisation in Chemistry with be considered.

2. LECTURER IN MATHEMATICS DEPARTMENT

3. LECTURER IN BIOLOGY DEPARTMENT

Applicants should hold a good higher degree in Glological Science.
Proference will be given to concidates having teaching experience.
Application will develop and toach courses in various appeals Glological Sciences Including those related to Home Economics and Physical Education. Research in a relavant field will be andertaken. Konyetts University College deals with Teacher Education as its mojor predictupation. Enperience and qualification in leacher education are therefore our professional, inck of which does not necessarily lead to dequelification. All inambors of the Academie Bail are expected to permethele in the supervision of Teaching Practice.

Galary Scales: Sonior Lecturer KC2,772-KC3,860 p.s. Lacivity KC1,866-KC3,865 p.s. [KE1=21.39 starting]. The British Covernment and supplement seturies in the range 22,862-23,726 p.s. [stering] for married oppointees or 21,944-72,578 p.s. [aterting] for single appointees inormally hos of elli tax end assurily reviewed enneity and provide children's education ellowaneas and fields wat passages. The forms of service include authorized housing, membership of SSSF or FSSU nind in non-contributory medical scheme and inmity passages.

Dotolled epplications [2 copies) including a curriculm what implicants should give these names of Academic releases and that addresses and of the some line request lines to send that reterences direct to the Degloirar without delay), should be eathy simplified in the 2D April, 1977, to the Registar, Kengila University College, PO Cox 43844, Natrobl, Konyo.
Applicants resident in U.K. alloute place cand one copy to the inter-university Council, 80/81 Tottanham Court Read, Lendon, WIP 90%, Further perticulars are evallable from either address.

UNIVERSITY COLLEGE CORK Department of Accounting-Full-time Appointment(s)

The Governing Body Invites epplications for full-time poet(s)—one or two appointments may be made—85 Assistant Lecturer/College Lecturer in the Dapartment of Accounting. The appointment(s) will be made at one of the levels mentioned according to the qualifications and experience of the augmental conditions. end experience of the eucceesful cendidete(8).

The eelery scales ere: College Lecturer, £4,720 to £5,665/£6,940 to £7,119 per ennum; Assistant Lecturer, £4,052 to £4,431 per ennum.

Application form and further details of the post may be obtained from the undersigned.

Leleer dele lor receipt of epplications is Fridey, April 22, 1977. M. F. Kellehel Secretary.

THE NATIONAL INSTITUTE FOR HIGHER EDUCATION **IRELAND**

> LECTURER DIGITAL ELECTRONICS

(Two poste, AS4-016 and AS4-030) Person appointed with be involved in the operation and development of Degree end Diploma Programmes in Electronic Engineering and elect to other raised programmes. The inetitute has excellent laboratory facilities in digital electronice. A funded research programme is in programs in microscopic and in programs in microscopic in programs. In progresse in microcomputer applications.

Candideter should have eignificant rejevant research development experience and an appropriate degree of equivalent quelification.

This is an excellent opportunity to work in a stimulating environment on a new riverside compute.

25,487 to 27,018. Additional ennuet allowances of £100 pe, merriage, and £70 ps, child, together with other baneline.

Application material aveilable from the Personnal Office, Hallord, Application material aveilable from the Personnal Office, Hallord, Institute for High Education, Limerick, Iraland, to be completed and returned by Priday, April 29, 1077.

UNIVERSITY OF BENIN, BENIN GITY, NIGERIA

ACADEMIC STAFF VACANGIES, 197

Applications are invited from suitably qualified candidates to fill vacancies at the University.

The University of Benin, like the other universities in Nigeria, is a Federal Government university. It is a young and fast-developing university and provides all the opportunities and rewards of pioneering effort. There are currently just under 2,000 students enrolled in the Schools/Faculties of Medicine, Dentistry, Pharmacy, Engineering, Science, Education and Arts and Social

For the 1977/78 session, staff vacancies exist in the following departments:

1. SCHOOL OF MEDICINE

(s) Positions Vecani: Protessor/ Associate Protessor or Resdar: Senior Lecturer/Lacimer/Research Fellow

(b) Fields of Specialization Required: Ansealhasiology; Radiology; Physiology; Physiological Ansealhasiology; Radiology; Physiology; Physiolo Signific result Administration (Territory)
Signific Addical Entomology—may not be modically qualified; Mental Mobilin (Psychietry and Clinical Psychology); Pathology (Morbid Analomy, Manadagy, Human Microbiology, Chamical Psitiology).

2. SCHOOL OF DENTISTRY

(Note—This school was only recently established and admitted its first students in September, 1976.)

(8) Positione Vecani:

Professor/Associato Professor or Roador; Senior Legiurer/Legiurer/Recoerch Fellow

(b) Fields of Spacielization Required: All ereas of Dentiefty.

3. SCHOOL OF PHARMACY

(e) Positiona Vacent : rolessor/Associate Professor or Reeder Santor Lecturer/Lecturer/Reeserch Fellow Assistant Lecturer

(b) Fields of Specialization Required: Cliniosi Pharmecology end Therepeutics; Phermecology, Phermaceutical Chemistry (Physical end Organio); Pharmaceutical Technology; Phermacognosy; Pharmaceutical Microbiology.

4. DEPARTMENT OF **BUSINESS STUDIES**

(a) Positione Vacent: Professor/Assistant Professor or Reader Senior Lecturer/Lecturer/Assistent Lectorer

(b) Flaids of Specialization Required: Addinistration, Business Finance, Economic and Business Station, Business Finance, Economic and Business Statistics.

5. VICE-CHANCELLOR'S OFFICE-PLANNING AND DEVELOPMENT UNIT

Positiona Veosni: 1. Senior Plenning/Planning Officer (Academic) Dutien:

To translate the acedemic objectives of the University into eludent and staff projections, Menpower Iraining programmes, their finencial implications, etc., and in cooperation with the physical plenning section to formulate en integrated development plen of the University and to ensure its implementation.

Recognized University Dagree, preferably with Statistics. with specialization and/or experience in Educational/ Institutional Planning.

Ollers will be made in the salery range Grada Leval 09-12, depending on qualifications and expanience.

2. Planning end Development Officer (Landsceping)

To assist in the planning of, end to supervise, the loyout end Landscaping Development of the permenent site of the University within the context of an approved master.

A recognized University Dogreo or equivelent professional qualifications in Town Planning, Horticulture, Ecisio Planning/Monugement, with experience in Landscaping.

This will be a contract eppointment of two or three years. Offers will be made in the selary range Grede Level 99-11, depending upon qualifications and

GENERAL QUALIFICATIONS REQUIRED OF APPLICANTS

(e) Professor/Associate Professor/Reader (e) Proissor/Associate Professor/Reager
High acedemic qualifications in the relevant field,
preferably up to Ph.D. Several years of teaching,
research or professional experience in a University or,
compensitive inetitution complemented by adequate
acholerly publications. Ability to initiate and develop
research projects and to supervise postgraduate research
programmes. Some administrative experience.

(b) Senior Lecturer/Santor Research Fellow Sound ecademic quellications, preferably with a Ph.D. Not less that five years of teaching, research or equivalent professional experience in a University or comperative institution. Ability to initiate and develop research projests, supported by evidence of scholarly publications. Experience in directing southering ground the contents will be an educations. discussion will be en advanta

(e) Lecturer t and II/Rasearch Fallow Sound ecedemic or equivalent proteesional qualifications with, preferency, a nighter degree. Level of epportunity will depend on leaching or research experience in a University or compereble inetitution. Evidence of scholarly publications will be an edvantage.

(d) Assisisht Lociurar/Assistant Research Esilow A Mester's degree with demonstrable shilly or potential for teaching and research. Candidates with good honoura degrae not below Second Class Honours (Upper Division), or its equivalent with adequate leaching or research experience, will be considered.

SALARIES AND CONDITIONS OF SERVICE

(a) Salary:

Professor/Director Grado Level 16: N11,268-N12,420 Associete Professor or Reader Grada Level 14 | NB.988-N9,828

Senior Lecturer, Senior Research Fellow Grede Level 13: N7,784-N8,724 Lecturer or Research Fellow Grada I Grade Level 11: N6,444-N8,984 Locturer or Research Fellow Grede 11 Grade Level 10 : N5,480-N8,432

Assistant Lecturer, Assistant Research Fellow Grede Level 99 : N4,388-N5,349 (Note: N1=29.8377 (British Sterling) N1 = US\$1.5846 subject to changes in exchange rates).

(b) Other Conditions:

(b) Other Conditions:

The eppointment of Prolessor is to retiring ege which is normally 60 years; for other poste balow Professor, appointment is normally on probetion which may be confirmed elier two or throe years of saltatactory earvice. All poste ero pencionable. But contract appointments for spacific periode can be atranged, in which case the staff member will be eligible for a "Contract Addition" equivelent to 25 per cent of basic saltary.

Benefite Include phymonic of a cer silowance; provision of part-furnished accommodation or poymont of rent ellowance in item thereof; passages for appointe and family (wile and up to live children) on appointment. Local leave allowance pold annually, end/or overseas teave possegee overy other year for expatricles. For medicelly quelilled stair, clinical supplementation is peyeble to ecademic etell with Consultant status.

Note: In reepoct of Clinical appointments, candidetes must possess a good medical degree plus the eppropriate postgreduste professional Diplome or degrees, registrable or registered with the Nigerian Medical Council. For appointment to the School of Phermacy, Phermacy Diplomes may be required to be registered with the Phermacy Board of Nigeria.

(c) Method of Application:

Candidetes are required to submit three typewritten copies of their applications giving the following information: Full Name, Dele and Place of Birth |

Nationality and Permanent Home Address: Current Poetal Address;
Post for which Applicant wishes to be considered;
Marital Status I number of children (with ages);
Academic and Projectional Background—
with qualifications and experience; Current Poetal Address:

Working experience: Present employment;
Sietus and Selary;
Recearch and Publications (two copies of not more
litan eix of them to be supplied if evelleble); Non-Academic Interests/Exira-Curricular Passport Number (if any) with Date end Place of Iseus; Namee and Addresses of three referees: Passport Pholographs should be included with the

Applications are to be forwarded to: The London Representative University of Benin 8 Hallam Street London W1N 5LF

Closing Date: 21st April, 1977. 29th March, 1977. E O AKWUKWUMA



INIVERSITY OF

BOTSWANA

AND SWAZILAND

(University Coilege of Sweetland)

LECTURESHIP IN

GEOGRAPHY

GEOGRAPHY

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ionable tenial; Furnity parvages, detailed applications (3 capies) including a curriculum time, defails of present ablaty and naming 3 assume should be forwarded, by simmell, not lefe than 2 May, 1877, to the Rejeffers, University Cottage of Seatland, Privote Seg, Kwelusent, Seatland, Stom whom further intermetical to evaluable. Application to more property of application to more property Council, M/St Tottenhant Court lood, Leadey WIP DOT.

UNIVERSITY OF

DAR ES SALAAM

plications are invited for the

TANZANIA

· PROFESSOR/

ASSOCIATE PROFESSOR

IN FOREIGN LANGUAGES

& LINUUSTICS
Applicate should be established interest with entenive location and research expositance for one or fore of the following states; and expositance for one or fore of the following states; as a consistent of the following states; and wilkingstates. Expasitions, and wilkingstates of underlike administrative duties, oro steedles, knowledge of Swohill and French, and experience in African Universities would be advantaged. The department's at lasches courses at undersactive and techniques and the course of the course states are the course of the course states and the course of the course of

& LINGUISTICS

scalications are invited for

UNIVERSITY OF

SIERRA LEONE

NJALA UNIVERSITY COLLEGE

Applications are heavy of

ASSOCIATE PROFESSOR!

SENIOR LECTURER

In ENGLISH in the

FACULTY of EDUCATION

PROFESSOR/

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Universities continued

KENYATTA UNIVERSITY COLLEGE-KENYA

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(A consiltuent college of University of Nairobi) Applications are invited for the following peaks in the Euclip of Ails.

1. SENIOR LECTURER/LECTURER IN BUSINESS EDUCATION DEPARTMENT

Applicants should have a Master's degree in Susiness Education/ Administration of Accounting/Economics also teaching and research experience. Appointee will be expected to teach two of more of the following courses: Accounting, Economics, Susiness Statistics, Susiness Lew, Marketing, Finence and Computer Concepts.

2. LECTURER IN LANGUAGES AND LINGUISTICS DEPARTMENT Applicants should have a Ph.O. or equivalent in Medain Theoretical and Gescriptive Linguistics. Specialisation in one of the following would be an advantage: Observation of Medain English, Communication Skills in English. Appendix will be expected to initiate and direct under and post graduate research.

Keayatto University College denia with Tencher Education as its major prooccupation. Experience and qualification in teacher education are interested our presence, teck of which does not necessarily land to disqualitication. All numbers of the Academic Stoff are expected to participate in the supervision of Fenching Practice.

Selary Scales: Senior Lectusor K22,772-K23,899 p.e. Lectusor K21,890-K23,996 p.e. (K2t = 2t.39 etesting). The Sixtish Government may supplement epistics is the range \$2,892-81,729 p.e. (stailing) for nestical appointees or \$1,844-22,976 p.e. talerting for single appointees (normally free of all text and sauerly text-wood expuelly) and provide children's education ellowances and heliday viell passages. The terms of ourvice include sub-sidiase housing, main-berahlp of SSSF or FSSU and a non-contributory medical schous, and family passages.

Detailed epplications (2 copies) factuding e emiliphism sites (applicants should give throe sames of Academic rateress and thoir addresses and at the same lime request them to send their rateresses of the Register without delay), should be seen by elimelt not leter then 20 April 1977 to the Registrar, Kenyette University College, PO Sex 43344, Nekrobi, Kenye,

Applicants resident to U.K. should else send one copy to the inter-University Council, 99/91 Tollashem Court Road, London, W1P 00T. Further patiticulars are evaluate from either address.

UNIVERSITY OF MALAWI

(CHANCELLOR COLLEGE)

LECTURESHIP IN

PUBLIC

ADMINISTRATION

ADMINISTRATION

Applicants should have a good honours dequed in Political Bolance or Public Administration. A higher dequed, leaching and selected or civil service experience in Artica or developing country will be an experience. The appointoe will be an extentoge. The appointoe will be an extentoge. The appointoe will be required to teach degree/diplome students in at least two of the following erace: Organicalional Theorica and Behaviour, Managament, Parsonnel Administration, Oacielon Muking and Public Pottoy Asalysia. Local Administration, Rubilo Entaipriss. Introductory Political Science and Compactative Political Science and Compactative Political Science and Compactative Political Science and Compactative Political and Compactative Political and Compactative Political Science and Compactative Political Science and Compactative Political Science and Compactative Political Indicate in India of compactation, Science and Compactative Political India of Compactative India of Compactativ

· University of Wales

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DEPARTMENT OF

ENGLISH

TEMPORARY

English Literature

Salary : £9333 to £6655

TUTORIAL ASSISTANT

English Language

£2904 : £3119 : £3333

Requests (quoting Rel. THEB) for detelle end appli-cation form to Parsonnel Section (Academio) UWIST, Cardiff CF1 3NU.

Closing Date: 22 April 1977

Salary :

LECTURER

pplicotions are invited for

UNIVERSITY OF BOTSWANA AND SWAZILAND (University College of Boldwane)

Applications are invited for the (ollowing posts to the OEPART-MENT of LANGUAGES and 80C)AL SCIENCE EOUGATION:

1. LECTURER IN DEVELOPMENT STUDIES Applicants should have a good dagine and tacohing experience in al tacet two of the following flotals Sociology, Economic Deography, Ocuarment and Political Society, Economic perianes in Jaccher edecation, projerably in a developing country, would be an edvantage,

2. LECTURER IN ENGLISH

Applicante should have at lend a good Honours dogree and experience is a Snglish Language teaching. Postgradust qualitiosations and experience in teaching English se a Second or Porcipa Language and/or teacher stucishos would be an adventage.

3. LECTURER IN HISTORY .

Applicants should have a good degme in Nietory and feeching experience. Postgraduate qualifications and experience in leasing education, aspecially in a developing country, and special interest in African History, would be an advantage. The Faculty of Education is responsible for isolning graduates and non-graduate encoders school for the faculty school teachers, and is also involved, through affilied Tamber Training Collegas, to the training of primary school teachem. Experience and qualifications in teacher advantion and therefore, strong profesences. in addition to the lesching and development of course in their special faids, appointees will be appointed inter-situation of tea-situation of

ucickies in the superintenes of teaobting practical [2] estate in
planning and running workshops
and confiscencies [3] be involved in curriculum development
and research: Salary soals t
(under review) P4.272-P8, 700
p.s. (01 striing = p1.48). Conracte of two, our or six years
for experiate. 20 per cent onturly in lieu of superametation for
the first tous for contract state
(rising to 27% per cent and 38
per cent for sach subsequent
allowances payable to experiesse
not qualifying for any supplementation scheme. Furnished
acommodation at reasonable
ropials. Family pessagos; bagguge attowance, etcatica slicwance for experiess; vacation
between medical action allowance for experiess; vacation
between medical allowance for experiess; vacation
between medical Att Scheme.

Detailed application forms and further particulars are obtainable from the Regularar, University of Botsweez and Sweetland, PO Sox 9022, Gaborone, Botsweez,

Applicants resident in UK should sho cand 1 copy to inter-Uoi-sersity Council, 50/21 Tolianban Court. Road, London, WIP GDT. Dicking date 1 28 April, 1977,

UNIVERSITY OF BOTSWANA AND SWAZILAND

(UnlyBesity Collage Bolowanel

PROFESSOR and SEKIOR LECTURER/ LECTURER III DEPARTMENT OF BIOLOGY

The Prointson will elso the Head of Separational For it Ciall appointed will the expected to assume duling the control of the Head Ciali. sapeciad To assume duties as soon as possible, and let Sanlor Lecturer/Lecturer, and specific mand will be made as tromported to the local transported be able to teach at least two oi the following, as perfor a general dagree in Stolegy, Plant Anatomy, Plant Physiology, Plant Anatomy, Plant Physiology, Slochamilary, Denoites, Sniau, scale Processor Pf.344-Pf.030 p.a. Sonlor Lecturer Pf.344-Pf.030 p.a. Sonlor Lecturer Pf.000-Pf.118 p.a. Letter and Processor Proce Lacturo, P3.00-P7,116 p.a. Ler-line; P4.22-P5,100 p.a.) El elur-line; P4.40). The Sillish Govern-ment mey supplement salurios in rango 21,044-92,999 p.a. (sier-ling) lor meriled appointent of 2004-22,004 p.o. (stelling) for single appointees (somethy tree of All let and usually subsessed 2064-22,004 p.d. (atelling) for single appointoos (aomaily tree of all lex and usually reviewed as anually and pravide children's education ellowances and joilody yiell passages. Shott-term conlicels of livo, bour or six yoots for expellioles. 20% grainty in lieu of superennuation for the that ton of control sieff trising to 27% and 30% for each subsequent tout). 30% inducement ellowance payable to expetitions not continue.

able to expetiteles not qualify

ing for any supplementation scheme.
Furnished spoommodellon evelleble of reaconable rortals, Farmity passages a laguage allow-ence: odupation ellowance tor expolitates; vapolitates; vapol

UNIVERSITY OF NAIROBI KENYA

Applications are invited for LECTURESHIP IN DEPARTMENT OF LINGUISTICS AND AFRICAN LANGUAGES

APRICAN LANGUAGES

Applicants should have a Pl.O. or other postgraduets quelitications and experience considered equivalent in the list of linguistics. The appoints will be expected to be able to teach modern theoretical and descriptive linguistics and ellegat one of the following areas. The atructure and usage of the English lunguage; Nistorical and Comparative linguistics of Attean languages, especially Santu, Nitolio/Nito Saheren and Cupitio; Sociolinguistics; Salery societ; XL1,800-Kt3,096 p.s. (Kt aques; XL1,800-Kt3,096 p.s. (Kt aques; XL1,800-Kt3,096 p.s. (Kt aques; Various ellowanoss.)

Osfelted applicants (2 explas) Osfeited applicants (2 copies) including a curriculum vitas and gaming thms mierase should be sent by air mell not leter than April 29, 1077, fo the Regteirar, (Recrulimesi and Training), University of Natrobi, PO Ses 20107, Nairobi, Kanya.

Applicants resident in UK sheets also eard one copy to inter-University Council; 90/91, Tottenham Court Road, London WIP 907, Further particulars may be obtained from alther addmas.

BRUNEL UNIVERSITY UXBRIDGE, MIDDLESEX PROFESSOR OF ECONOMICS

The University has sateb-liehed a second Chair of Economics. Applications are invited from sconomists in any brench of the disci-

plins. Salary within the profes-soriel rangs, minimum £8,106 par ennum, plus

£8,106 par ennum, plus £450 per annum London Allowanos. Further information is eveli-eble from Assisiant Sec-yatery (Establishment), Brunel University, Ux-bridge, Middlesex, or Isle-phone Uxbridge 37183, ex-tension 49. The closing date foy applications is 30 April, 1977.

UNIVERSITY OF MALAWI (Chancellor College) uphestians are invited for the

1. SENIOR LECTURER/ LECTURER IN ENGLISH

Applicants should have a good tenours degree in English of Modern Languages, a Lost-gradiate qualification in English as a Second Language (ESL) or Enulish as a Foreign Language (ESL) or Enulish as a Foreign Language of leacher training Ability to leach the training Ability to leach the signeral of sections of the second Language. The specifics will be primarily concerned with the lanching of language. Inguistics and melhodology to diplome and degree sindenia in the School of Education.

2. LECTURER IN ENGLISH

2. LECTURER IN ENGLISH

Applicants should have a good honours degree in Euglish, a post-graduata quellilloation end oempatance in one or mere of the following libide (at Modern English Versu. 1c) The Novol, td) Stylistra, and is) Calibbean, Slock American and Tillid World Writistra, and is) Calibbean, Slock American and Tillid World Writistra, and is) Calibbean, Slock American and Tillid World Writistra, and is) Calibbean, Slock American and Tillid World Writistra, and is) Calibbean, Slock American and Tillid World Writistra, in a spot spot and cliptom students Salety scules: (Inc. expolitole addition) Santor Lacturer K8,205-44,714 p.s. (St atolling students K1,20). Plus atther a University addition of K720 p.s. or The British Oceanment may supplement salety of appointes to post I. In renge 22,729-22,530 p.s. (sterling) for angle 27,729-22,530 p.s. (sterling) for angle 27,7

Oslelied applications (\$ copies) including a puriforitum vites and naming three returnes should reach the Aciting Register, University of Malewi, University Office, P.O. Goz \$75, Zembs, Meiewi, by April 29, 1877. Application in the UK should eard a copy of the application to the inter-University Council, 20/21 Tollenham Court Road, Lendon Wip 60T.

UNIVERSITY OF DAR ES SALAAM TANZANIA

Applications are invited for pea

ASSOCIATE PROFESSOR SENIOR LECTURER/ LECTURER IN **ECONOMICS** (INDUSTRIAL)

Applicants againd to obte to foach the outleaf at under and posignodusts, level and should be familiar with the third world industried development problems related to the industried trochium, industrial location, industrial location, industrial location, tochnotogical policy, project apprelasion and the industrial development elistagy preferably in the contaxi of Tanzania. Baisry ecales: Associate Professor TC3,879 p.s. Senior Lecturer taxi of Tanzanie. Galary ecales: Adacciate professor TE3,879 p.e. Senior Lecturer TE2,879 p.e. Senior Lecturer TE2,079-TE3,720 p.e. Lecturer TE2,079-TE3,720 p.e. Lecturer TE2,09 etelling! The British O overnment may aupploment acialise in renge £2,004,642 p.e. (atering) for married appointees or £2,560-43,642 p.e. (atering! for, eingle appointees (normally free of all tax end causely reviewed annually! and providi children's aducation allowances and holiday vielt passegge; blennia! overagos leeve. Ostalised applications (3 centes)

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ABERDEEN: THE UNIVERSITY LECTUREBULP IN BUROSRY Applications are invited for

Applicants should possess targical irribing side process aurgical irribing side process are process and process are presented by the Oremplan section Board and it is expected finit blue will be at Ganlor Registers level. Registrar level.

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UNIVERSITY OF ZAMBIA Applications are invited for the following posts in the Schoot of Pateral Sciences:

I. ASSOCIATE PROFESSOR SENIOR LECTURER/ LECTURER IN PHYSICS

(5 to 8 posts). (a to a possi).

Applicants must hold a Ph D or oquivalous Applicants for sordar uses must lieve constituents for possion professor will be upliven to these inference will be upliven to these inference will be upliven for these incomes solid State Physics; Modical Physics on Nuclear Modicing. Majorials Science (Corantes): Therefolical Physics tapacistization opens. All appointers will be required to leach undergraduate courses. leach undergraduste courses lending to a 8.9c in two auti-lects of in Physics.

2. SENIOR LECTURER/ LECTURER IN BIOLOGY

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Octalied applications (2 cop(ss), lectusing a curriculum vitas and aoming 2 referees, should be sent by strmell, not later than 2 May, 1977, to the Register, University of Zamble, P.O. Bee 2379, Lucake, Zamble. Applicants resident in UK should also seed 1 copy to inter-University Council, 80/01 Totton-ham Cout Read, London Wip 90T. Futher particulars may be

UNIVERSITY OF LESOTHO

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OUNSOIN, NOW ZEALAND Applications are invited to sullably qualified periors in the following positions in the Opportment of University Entrances LECTURER OR SENIOR LECTURE THE NATIONAL

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LECTURER OR SENIOR LECTUR IN ECONOMICS

Applicants with good degrees any told of economics, commored or management will be considered, but in addition a condition of the condition with the mamber of commored one are a security.

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UNIVERSITY OF MALAWI (Chancellor College) optications are invited for I

Universities continued 1. LECTURER IN MATHEMATICS Applicants should liavs a good honours degree in Maliemetres and a higher degree in Yure of Applied Melliemetres, ut in Computer Science. This appoints will leach degree and diplomational statements. 2. 2 LECTURERS IN PHYSICS

2. 2 LECTURERS IN PHYSICS
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UNIVERSITY OF DAR ES SALAAM TANZANIA

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SEHIOR LECTURER/ LECTURER IN STATISTICS.

Applicants should have en M.Sc. or Ph.U. with at lood one year tooching experience for it for the first opening experience for it for the first opening experience for it for years led the Section of the first opening experience of the first opening exper

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GALWAY INVERSITY COLLEGE JIHHOR LECTUREBUILD Apolications are invited for the above tuil-tune apply to Science and tuil-tune apply to \$5.479 title marriage and foreity kiloweters. Latest gate for recipi of applications, file May 1977.

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UNIVERSITY OF MALAWI CHANCELLOR COLLEGE PROFESSOR OF

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29 April, 1977.
Applicants in the UK should send
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98/91 Tollenham Court Rood,
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LECTURER IN STATISTICS

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INIVERSITY OF KHARTOUM - SUDAN Applications are invited for LECTURER/ SCIENTIFIC ANALYST

SYSTEMS ANALYST IN THE COMPUTER CENTRE Applicants should hold either a 0 Sc. with 3 years or perience or er. M.Sc. with 1 year experience.

O Sc with 3 years oppelence or sm M.Sc. with 1 year expelence or they should have issoaich and/or industrial expelence in one of the following: Date Processing: Computer Science; Systems Analysia: Sciosilite Programming. Appointes will teach under deducter. There is a new computer being inautiled. The outgoing squipment is ELICOTY 5038 GK word, line-printer. O tape readons and the mannello tapes. Salaty scalar E31,806-552,480 p.a. 151 aloriforment is unlikely to provide active supplementation for the post. Family persone; vallous allonances; superannelles solvens; snuel overses lawe. Oastelled spylifestims (2 copies) including a currioulum rites and naming 3 relevans, estooid be seen, by supming 10 letter from 2. May, 1879 to the Personnel Sestions, Volversty of Karfoun, Spidan. Applicants residant in Vitarioun, Sudan. Applicants residant in Gopy to Interest of Northern particulary may be oblested from ether address.

Applicants should hold a good degree plus a higher degree in Algobia of Fanctional Analysis. Solary scale: P4.272-P5.70 p.s., 21 deriting = P1.401. Controls of two, four or als yearn for aspellistos. 25% organity in lieu of control staff (rieing to 27% and 30% for each subspirient tour). 30% inducement touri, 30% inducement alloneace payable to expatitates not qualifying for any supplementation editement. Furnished accommodation at responsible restals. Family pessalose; beggang alloneaces; wedder Ald Scheme. Opialled application forms and

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UNIVERSITY OF MALAWI (Chancelle: College) Applications are highed for

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SERIOR LECTURESHIP LECTURESHIP IN ECONOMICS

Applicants should have 6 higher degree in Economics. Previous isaching including post-graduate experience and issenich supply vision will be an adverseup Professoro will be given to can Pielsiance will be given to candidates with competence in modern economics including jue alliative methods. The appointed will be required to teach scene mics up to pest-graduate level. Selory scale (including expelliate addition): Selor Ecturor K5,242-K5,881 p.s. Leviuror K5,242-K5,881 p.s. Leviuror K2,609-K6,714 p.s. Itt stating = K1.56). Plue alither o University addition of K720 threshe in Molawi) of the Billith Dovernment may applement Selevi In Nolawi) or the Billish Dov-pontion may supplement sealery in range £2,730-£3,630 p.m. (statiling) for a meatled appointed or £2,100-£3,090 p.m. (statiling) for a single appointed (maintly teviowed annually and numbly teviowed annually and numbly trace of lax) and pro-vide children's advantion silow-ences and holiday visit pessages. Oratuly of 19 per cent to 29 por cent; Supetennuallon Scharza transferable with F.S.S.U.; Femily Dessage: vurious allowances; tionalarabia with F.S.S.U.; Family passage; willow altowarces blemnial oversees losve; housing. Opisited applications (three copies) including a curieritum vites and naming three referees should teach the Acting Register, University of Malewi, University of Malewi, University Office, P.O. See 978. Zomba, Malewi, by 29 Apiti, 1977.
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London WtP 997.

> UNIVERSITY OF SYDNEY

LECTURESHIP IN SOCIAL WORK Appointee to teach in the field of sociology of sucial problems, community or gonkation, or some other espect of social welfure. Appointment to commence 1 June, 1977, or as sout offer as possible.

Salary range : \$A13,850. \$18,389 0.0.

This pushion is permanent but may be filled for three years in the first instance with pussibility of perman-ency thiring that time, or fir ceriolit cases relatin fares.

Applications including curriculum vitae, list of indications and names of three referces by 29 April, 1977, to the Registrar, Utiversity of Sydney, N.S.W. 2006, Australia, from whom further information also avointle from the Association of Cammonwealth University of Commonwealth Univer-sities (Appls), 36 Gordon Square, London WC1H OPF.

> THE UNIVEHBILLA DEPARTMENT OF PHYSICAL

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LONDON, E.C.1 200: CITY UNIVERSITY HEPARTMENT OF SOCIAL PRONONING PSYCHOLOGY ROUAL POLICY SOCIOLOGY Applications are invited for the following appaisaments:

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The temporary posts are all for one year from Bantonher 191, 1977, Kalary on the stide 13, 35 to \$6,655 plus \$150 Lindon Allowance and 1580/188. 1985.
Enginer particulars and application forms are available from the paper of the

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Applicants resident in UK should also sent one copy to inter-University Council, 50/97 Totts/hem Court. Road, Lyndon Wtp 807. Purihar particulats are available trem either address.

BATH THE UNIVERSITY SCHOOL OF HUMANITIES IN TEMPORARY LECTURER IN SOCIAL ADMINISTRATION Applications ore invited for the above post from enpropri-sicity quantited oradizates. The appointment is for one year from 1st September, 1977, Behary in the lower part of the renga £5,553 to £6,652.

Application forms and turner particulars available from the Personnel Officer. University of Soith East MAZ 7A/100 that freezen number 77/10, 118.6. Closing dets for applications. Of the April, 1977.

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TEMPORARY LECTURESHIP

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UNIVERSITY OF BOTSWANA AND SWAZILAND (University College

of Bolswens) pplications are invited for 2 LECTURESHIPS IN DEPARTMENT OF MATHEMATICS

> Both April, 1977, NEWCASTLE UPON TYNE

May, 1977.

Professor Greens Facebore, 19ed of the Department III liveliness Administration. Will he to London from 18th to spirit April and world be interested in interviewing prosective opplicants and/or capital than by letophone; cominct with him Appelintents Department of life Association as grove.

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KELVIN GROVE COLLEGE

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A victancy in the Department of Psychology will decor in July, 1977, Inc. a.:

LECTURER IN

RESIDENTIAL CARE

Ret. 77/A/8

This College is spaking a Lacturer who will be involved in the training of reutdential care workers. These shoens are being pre-pared to work in a variety of topidential care iscillites including lines provided for the intellectually handrageped, the socially materials, amounted in the superior challenge to the socially materials, amounted includes in the superior challenge to the superior training and hostels, day care centers, and domictiary support agencies.

The succession applicant will be expected to locture in the theory and practice of residential care and in supervise students in their practicum placement.

I A degrato (prelozebly at Master's lovel or higher) in the social clences with major studies in ereas relevant to residential carn.

Extensive apparence in a wide vertely of residential settings

(A) Experience in plenning and implementing changes in real-

dontial care, and

(b) Involvement in tooldent training programmes.

Experience in training per-professionate and domonstrated ability appervise audience in precificum placements.

Vide knowledge and understanding of place of residential care in total range pf. support services and exclai provisions for dependent

persons

5. Abrilly to lists effectively with community resource agencies.

The appointment will be made within the following salety tanges in accordance with qualifications and experience:

Locturer III, \$11.861-\$13.687 per minum

Lecturer II, \$13.250-\$13.697 per minum

Lecturer II, \$13.250-\$13.693 per minum

The successful applicant would be expected to take up duty on 4th July, 1977. Applications should be received within 21 days of this

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n. W. BROWNLIE. ACTING REGISTNAN.

Overseas

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Required in the Division of Government and Public Required in the Division of Government and Possess Administration from 1st Saptember, 1977 to teach on a range of courses including the Division's Honours Degree in Government. One of the successful candidates will be

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to register for a higher degree. The Assletaniships are initially for a fixed period of two years.

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Detalis end epplication forms from Deputy Haed of Administrative Services, Brighton Polytechnic, Moulsacoomb, Brighton BN2 4GJ. Tai: 0273 693655. Closing date: April 25,

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Applications are invited from persons with high scatemic qualifications who are leading exponents is the listed of music. Courses
leading to 6Al Hones in Music and a Cordusia Diplome in Music
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ead encourage both research activities and advanced studies for
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A Rander or Principal Locturar is raquired to teach and to essist in the development of research, and to underly

An applicant for either post should be an accommist wi o good honours degree and prelembly a higher degree An appointment at Readership Isvel will depend upon the applicant's research record. He or she should have good teaching experience and industrial and/or come tency experience would be an advantage.

PRINCIPAL LECTURER in **BUSINESS STUDIES:**

A Principal Lecturer in Buaineas Studies is required to teach end assist in the general administration of the

An applicant for this poal ahould praiarably have an honours degree and e higher degree. He or she likely have qualifications and interests in e relevent Susanz Studies area and ahould have good teaching experient industrial and/or consultancy axparlance

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A lecturer is required to teach and to engage in reset in the Organisational Studies area.

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A lecturer is required to teech end to engage in research In the Marketing area with particular reference to either distribution or exporting.

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This is a new post to motch a new and expending field of study in which the Polytechnic has stready pleasered several courses. The successful applicant will take responsibility for the planning and organisation of course in Education. in Education Management of all lavels; will share be tsaching end research; end will co-ordinate the schimits of the Teschers' Centre as the Polytechnic's local of the Teschers' Centre as the Polytechnic's local of inservice tascher training. He/she will preterably have a higher degree in Education, Monagement, or a related area, and recent school experience in a senior post.

Selary Scalas: Readar end Principal Lecturar: £5,940-£7,578 £3,279.£5,498 Legiurar II: 22,469.24,377 Lecturer 1:

All above scales are subject to £312 supplement. The Polylechnic is a direct grant institution with an inde pendent Goard of Governors. It opened in 1971 and Arm has a student population of some 6,100. It has extensive new purpose built eocommodetion, including 750 residential pieces on the 114 eora compus overlooking the set

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Salety rengs 28.282-28.884 (2011-27-280 (4))-14 September 1 pm

Balery renge 26,252-25,854 (Gar)—27,890 (Award Pendies) + 291 London Allowones. Further details and application terms, to be returned by 25th April. Itom Appointments Officer, Kingolon Polytechnic, Penthyn Rost. Kingolon Upon Themas, KT1 2EE: 01-549 1366.

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Teachers of EFL

porary or permanent pasts in Brighton, Landon. Brecon (Wales), Exeter, Pustgrad qualifications in TEFL or RSA Cert. TEFL and relevant experience essential. Applicants with lusiness fact ground ar interest preferred.

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University of London One year full-time or three years' port-time study. Relates the study of further adacation in contemporary educational theory and in current social, political and ecomonic developments. Students can forther specialise in Psychology, Suciology, Philosophy, Educational Technology, Historical and Contemporary Studies, Educational Administration and Management. Appets of Conversibles. Conversition Amporary Studies, Biliteral furnit Affinintstration and Monagement. Aspects of Counselling, Comparative Education, etc. Is recognised by universities as a qualifying assortionalism for courses for higher dearces for both graduates and non-graduates. Candidates should have reasonably substantial teaching or administrative experience in further education, administration or industrial training.

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Council for Netional Academic Awerds Three or four years' part-time study. Extends the educational studies of the Certificate in Education tourses. Properes conditates for further study and research in further education. Candidates should be stiving teachers with an initial teaching qualification and a minimum of two years' experience.

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Candidates for all courses should apply as soon as possible specifying the course(s) in which they are interested to: The Principal (Ref. THES), Garnatt Callage, Dawnshire House, Roehampion Laric, London, SWIS 4HR (01-789 6533).

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Further particulars and application form obtainable from the Principal, Ounded College of Technology, Oell Street, Ounded College of Technology, Oell Street, Ounded College of Technology, Oell Street, Ounded by Particular Street, 1977.

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In each case, the successful candidata will be expected

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Apply with curriculum vitac to Miss Belgrave, Principal, Regent School, 148 Camben High Street,

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Appointes will be expected to lake up dulles as soon as possible but not later than 15th Jenuary, 1979.

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ASSISTANT PROFESSORS	}	Arebic	Feinale Grammar end Syntox (1)—Fem
FROFE33OK3	·	Geography	Physical Geography (1)—Female
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Position	M.A.	Arebio	Gremmar and Syntax (1)-Fem
LECTURERS		Geography	Physical Geography (1)—Famala Human Geography (1)—Famala
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(1) Applications should be sent (Registered) with curriculum vitee, testimoniele end acedemic qualifications (unreturnable) and certified by the Foreign Ministry and the Saudi Embassy and marked "Employment Applications"

The Dean of the Faculty of Arts,

P.O. Box 2456, University of Riyad,

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(2) Only applications received within one month from the date of publication of this notice will be considered.

(3) Cendidetes chosen will only be notified at their enclosed eddress.

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CHEMICAL PATHOLOGY:	Associate or Assistant Professor	MALE & FEMALE
MEDICAL MICROBIOLOGY:	Associate or Assistant Professor	MALE & FEMALE
MMUNOLOGY:	Associate or Assistant Professor	MALE & FEMALE
SEROLOGY:	Assistant Professor or Lecturer	MALE & FEMALE
PARASITOLOGY:	Assistant Professor or Lecturer	FEMALE
PHARMACOLOGY:	Professor or Associate or Assistant Professor	MALE &
BIOLOGY:	Professor, Associate and Assistant Professor	MALE & FEMALE
CHEMISTRY:	Associate or Assistant Professor (Physical)	FEMALE
The state of the s	Associate or Assistant Professor (Organic)	FEMALE

QUALIFICATIONS:

Applicanta for teaching positions must have obloined a higher qualification (Ph.O or its equivalent) and sultable experience. Applicanta for Clinical positions must be medically registered. Modically qualified applicants in the property of the property o

Successful candidates will be required to join by

15th SEPTEMSER, 1977. PAY SCALES (In Saudi Riyels)

No Income Tex. Currency In the Kingdom of Saudi Arabie is freely convertible and transfarable. (S.R. 8.12 equivalent to £1.00. S.R. 3.54 = U.S. \$1.00 approx. de per current rate).

Post Monthly Annual Housing Monthly Housing Monthly Housing Monthly Monthly Housing Monthly Mo

In case accommodation is not available Housing allowance as par entitlement would be grented, plus 50% of the Housing Allowance as Furnishing Allowance is paid only once in the whole period of service.

GRATUITY:
A gretuffy of half e month's salary per year la payable on proper terminetion of the Controct provided the period of employment hes been 2 years or more. Should the period of service exceed five years the Gratuity shell be one month's selery for each year, including the first five years.

VACATION: 60 deys annually.

TRAVEL: Meximum lour eir lickets (First Class for Prolessors and Economy Cleae for the rest) are provided to end from the piece of residence for the eppointee

end nemes/eddressee of two rateraes, cleerly indi-cetting the subject and position applied for, both on the application and envelope, should reach:

The Dean, College of Medicine & Ailled Sciences, King Abdulaziz University, P.O. Box 1540, Jeddah, Saudi Arabia.

The lest dete of receipt of epplications is 1st MAY,

Sefected applicants will be contected in about a month after receipt of applications.

Saudi Arabia

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